



# DarsunProduct Catalog

**DARSUN**  
SCIENTIFIC

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CE ISO 9001 ISO 13485



# PCR Consumables



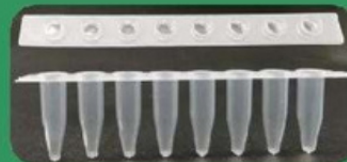
Applications: gene expression, mutation, medicine, forensic science and applied science, gene detection, methylation analysis, cloning, sequencing

Wide range of applications  
Traditional link design



Cover connection design  
Can effectively prevent cross-contamination  
and ensure the safety of the experiment

EW format design,  
high overall flatness,  
more convenient to open  
and close



## PCR Consumables

DARSUN PCR consumables are made of 100% virgin polypropylene.

The thin-wall designed for effective thermal conductivity and ensures efficient PCR reaction.

The tight sealing between the tube and cap ensures minimal evaporation and prevents sample leakages.

High side holes ensure consistent sealing. Convenient positioning of each hole.

The Pcr cap is provided in 2 different forms: flat and dome, Flat type is useful when labeling is required, while dome type prevents the reaction solution from binding to the cap surface. Provides single pcr tube with a cap attached, and strip tubes, composed of 8 bodies and 8 caps connected horizontally.

RNase/DNase-free、Human DNA-free、Non-pyrogenic、Non-cytotoxic.



PCR Single Tube



PCR Strip Tube



PCR Plate

## DARSUN PCR

| tub          | Description                         | Package    |
|--------------|-------------------------------------|------------|
| Order number | PCR Single Tube; 0.1ml; Flat; Clear | 1000EA/Pk; |
| PCR001-F     | PCR Single Tube; 0.1ml; Flat; Matte | 10Pk/Cs    |
| PCR001-FF    | PCR Single Tube; 0.1ml; Dome; Clear | 1000EA/Pk; |
| PCR001-C     | PCR Single Tube; 0.2ml; Flat; Clear | 10Pk/Cs    |
| PCR002-F     | PCR Single Tube; 0.2ml; Dome; Clear | 1000EA/Pk; |
| PCR002-C     | PCR Single Tube; 0.5ml; Flat; Clear | 10Pk/Cs    |
|              |                                     | 1000EA/Pk; |

## DARSUN PCR8-Strips

| Tube         | Description                                       | Package      |
|--------------|---------------------------------------------------|--------------|
| Order number | Pcr 8 strips tube; 0.1ml; Flat; Clear             | 1000EA/Pk;   |
| PCR001-8F    | Pcr 8 strips tube; 0.1ml; Dome; Clear             | 10Pk/Cs      |
| PCR001-8C    | Pcr 8 strips tube; 0.1 ml; Connecting cap; Matte  | 1000EA/Pk;   |
| PCR001-8FD   | Pcr 8 strips tube; 0.1ml; Flat; White             | 10Pk/Cs      |
| PCR001-8FW   | Pcr 8 strips tube; 0.2ml; Flat; Clear             | 125strip/Pk; |
| PCR002-8F    | Pcr 8 strips tube; 0.2ml; Dome; Clear             | 10Pk/Cs      |
| PCR002-8C    | Pcr 8 strips tube; 0.2ml; Connecting cap; Clear   | 125strip/Pk; |
| PCR002-8FD   | Pcr 8 strips tube; 0.2ml; Flat; White             | 10Pk/Cs      |
| PCR002-8FW   | Pcr 8 strips tube; Detachable; 0.2ml; Flat; Clear | 125strip/Pk; |
|              |                                                   | 10Pk/Cs      |

## DARSUN PCR

| Plate        | Description                       | Package      |
|--------------|-----------------------------------|--------------|
| Order number |                                   | 125strip/Pk; |
| PCR001-96    | 96-well, 0.1ml; No skirt; Clear   | 10Pk/Cs      |
| PCR001-96W   | 96-well, 0.1ml; No skirt; White   | 125strip/Pk; |
| PCR001-96S   | 96-well, 0.1ml; Half skirt; Clear | 10Pk/Cs      |
| PCR001-96SW  | 96-well, 0.1ml; Half skirt; White | 125strip/Pk; |
| PCR002-96    | 6-well, 0.2ml; No skirt; Clear    | 10Pk/Cs      |
| PCR002-96W   | 96-well, 0.2ml; No skirt; White   | 125strip/Pk; |
| PCR002-96S   | 96-well, 0.2ml; Half skirt; Clear | 10Pk/Cs      |
| PCR002-96SW  | 96-well, 0.2ml; Half skirt; White | 150/Cs       |
| PCR001-96C   | 96-well, 0.1ml; Clear; Full skirt | 10/PK;       |

|              |                                                |        |
|--------------|------------------------------------------------|--------|
| PCR001-96CW  | 96-well, 0.1ml; White; Full skirt              | 15/PK; |
| PCR001-96P   | 96-well, 0.1ml; Clear; Full skirt, enhancement | 150/Cs |
| PCR001-96PW  | 96-well, 0.1ml; White; Full skirt enhancement  | 15/PK; |
| PCR001-384S  | 384 well plate; 25ul; With skirt; scrub        | 150/Cs |
| PCR001-384SW | PCR 384 well plate; 25ul; With skirt; white    | 15/PK; |

## DARSUN™ PCR 96-well plate

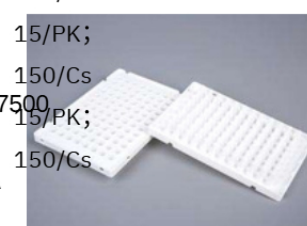
Suitable for ABI QPCR models

310 Genetic Analyzer, 3130xl Genetic Analyzer, 3500xl Dx Genetic Analyzer, 3730xl DNA Analyzer, 7500

FastSystem, 7900HT FastSystem, StepOnePlus, Veriti Dx Fast Thermal Cycler, Veriti Fast Thermal

Cycler, 3730 DNA Analyzer, 3130 Genetic Analyzer, 3500 Dx Genetic Analyzer, 7500 Fast Dx System, ViiA

7Dx FastSystem ViiA™ 7 FastSystem 3500 Genetic Analyzer 3500xl Genetic Analyzer



| Order number | Description                                   | Package             |
|--------------|-----------------------------------------------|---------------------|
| QPCR001-96S  | 0.1ml; Half skirt; Frosted, suitable for QPCR | 15 pieces/box;      |
| QPCR001-96SW | 0.1ml; Half skirt; White, suitable for QPCR   | 10Pk/Cs 15          |
| QPCR002-96S  | 0.2ml; Half skirt; Clear, suitable for QPCR   | pieces/box; 10Pk/Cs |
| QPCR002-96SW | 0.2ml; Half skirt; White, suitable for QPCR   | 10 pieces/box;      |

10Pk/Cs 10

## DARSUN™ New EW PCR 8- Strips tubes

the latest launch EW designed PCR 8-tube strip,

Easier opening and closing Easy

to open

No liquid splashing

Ensures experimental safety effectively

RNase/DNase-free

Human DNA-free

Non-pyrogenic

Non-cytotoxic



| Order number | Description        | Package      |
|--------------|--------------------|--------------|
| PCR001N-8F   | 0.1ml; Flat; Clear | 125strip/Pk; |
| PCR001N-8FW  | 0.1ml; Flat; White | 10Pk/Cs      |
| PCR002N-8F   | 0.2ml; Flat; Clear | 125strip/Pk; |
| PCR002N-8FW  | 0.2ml; Flat; White | 10Pk/Cs      |

125strip/Pk;

10Pk/Cs

## DARSUN™ New EW PCR 12-Strips tubes

the latest launch EW designed PCR 12-tube strip,

Easier opening and closing

Easy to open

No liquid splashing

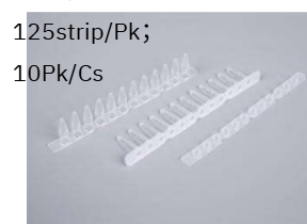
Ensures experimental safety effectively

RNase/DNase-free

Human DNA-free

Non-pyrogenic

Non-cytotoxic



125strip/Pk;

10Pk/Cs

| Order number | Description        | Package      |
|--------------|--------------------|--------------|
| PCR001N-12F  | 0.1ml; Flat; Clear | 125strip/Pk; |
| PCR001N-12FW | 0.1ml; Flat; White | 10Pk/Cs      |
| PCR002N-12F  | 0.2ml; Flat; Clear | 125strip/Pk; |
| PCR002N-12FW | 0.2ml; Flat; White | 10Pk/Cs      |

125strip/Pk;

10Pk/Cs

125strip/Pk;

10Pk/Cs

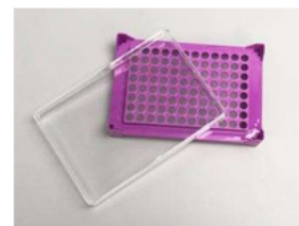


## DARSUN™ PCR 8-StripsTube

## Rack

Suitable for most PCR 8-Strip tubes

|         |                           | Package   |
|---------|---------------------------|-----------|
| CF08-96 | 8-StripsTube Rack; 96well | 100Pcs/Cs |



## DARSUN™ PCR Self-adhesive sealing plate film

- ☐ Clear Adhesive Film creates a secure seal across the entire microplate to prevent evaporation and well-to-well contamination.
- ☐ Adhesive provides tight seal over wells to prevent leaks and evaporation.
- ☐ Easy to apply and remove.
- ☐ The high resolution allows for optical analysis during the real-time PCR process
- ☐ Temperature range: -70~100°C
- ☐ For general analysis, genomics, storage and bioanalysis, high-throughput screening, and drug discovery applications



| Order NO. | Description                                                                | Package |
|-----------|----------------------------------------------------------------------------|---------|
| CPM04-65A | Sealing film; length x Width: 136x80mm; thickness: 65um                    | 100 片 / |
| CPM04-65B | Pressure sensitive film; length x Width: 143x79mm; thickness: 65um         | 包 100   |
| CPM04-65C | Pressure sensitive film; length x Width: 143x79mm; thickness: 65um sterile | 片 / 包   |
|           |                                                                            | 100 片 / |
|           |                                                                            | 包       |



## 8 strips Freeze drying tube



— Bioland

### Product Description

The PCR freeze-drying tube developed by Bioland can be used for the cryopreservation of reagents. Solved the problem of transmission. The harsh conditions required for storage of liquid reagents. Customers can freeze dry the reagents and pre-buried in the PCR 8 pipeline. More convenient to use, ready to use when opened.

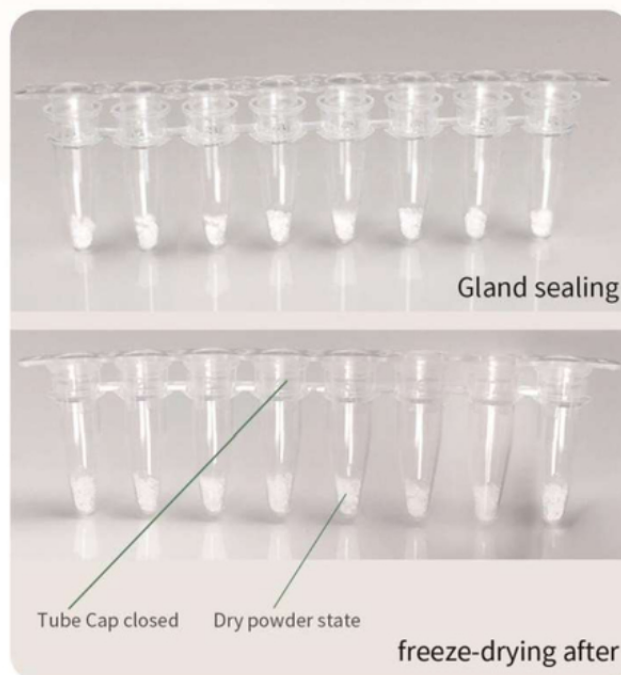
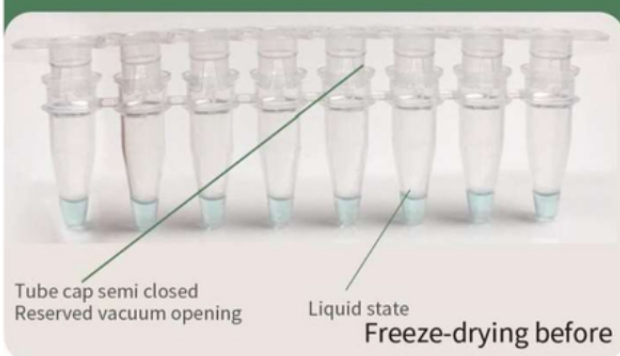
Can be used for freeze-drying of liquid reagents

Simultaneously capable of meeting PCR reactions and compatible with multiple fluorescence quantitative PCR instruments

The thin-walled design endows the tube with good heat transfer performance, ensuring efficient PCR reaction

Top with optical window, suitable for fluorescence quantitative PCR applications

RNase/DNase-free, Human DNA-free, Non-pyrogenic, Non-cytotoxic.



| Order NO. | Description                                                     | Package               |
|-----------|-----------------------------------------------------------------|-----------------------|
| FD002-8   | 8-strips Freeze drying tube <sup>PP</sup> , 0.2ml; with cap     | 100 stes/Pk;10pk/Cs   |
| FD002-8P  | 8-strips Freeze drying tube <sup>PP</sup> , 0.2ml; without cap  | 100 strips/PK;10Pk/Cs |
| FD002-8C  | 8-strips Freeze drying tube <sup>PP</sup> caps 0.2ml; with body | 100 strips/PK;10Pk/Cs |

# Consumables For Cell Culture



Applications: cytology, genetics, immunology, experimental medicine, oncology, biomolecules, monoclonal antibody, genetic engineering, vaccines, stem cells, cells

## Darsun Consumables For Cell Culture



## DARSUN™ Cell culture Flask

Nodeadendbottleneckdesign,greatlyensuretheharvestwithoutresidue.

The rectangular and trapezoidal bottom design makes our bottles smaller.

Thecoverplateweldedbyultrasonicsisstrongandleak-proof,andthereisnometalelementprecipitationintheadhesive.

Wide vent tank, improve air flow to ensure heat uniformity.

25cm<sup>2</sup>forcellresuscitationandsmallscaleexpansion;

75cm<sup>2</sup> suitable for most cell expansion;

175cm<sup>2</sup>issuitableforeukaryoticproteinexpression andpackagingofviruses.

□ Special surfacetreatment,better walladhesioneffect,moreuniform

□ Theupward-sloping neckdesignallowseasieraccesstopipettesorcellscrapers/scoops

□ Irradiation sterilization

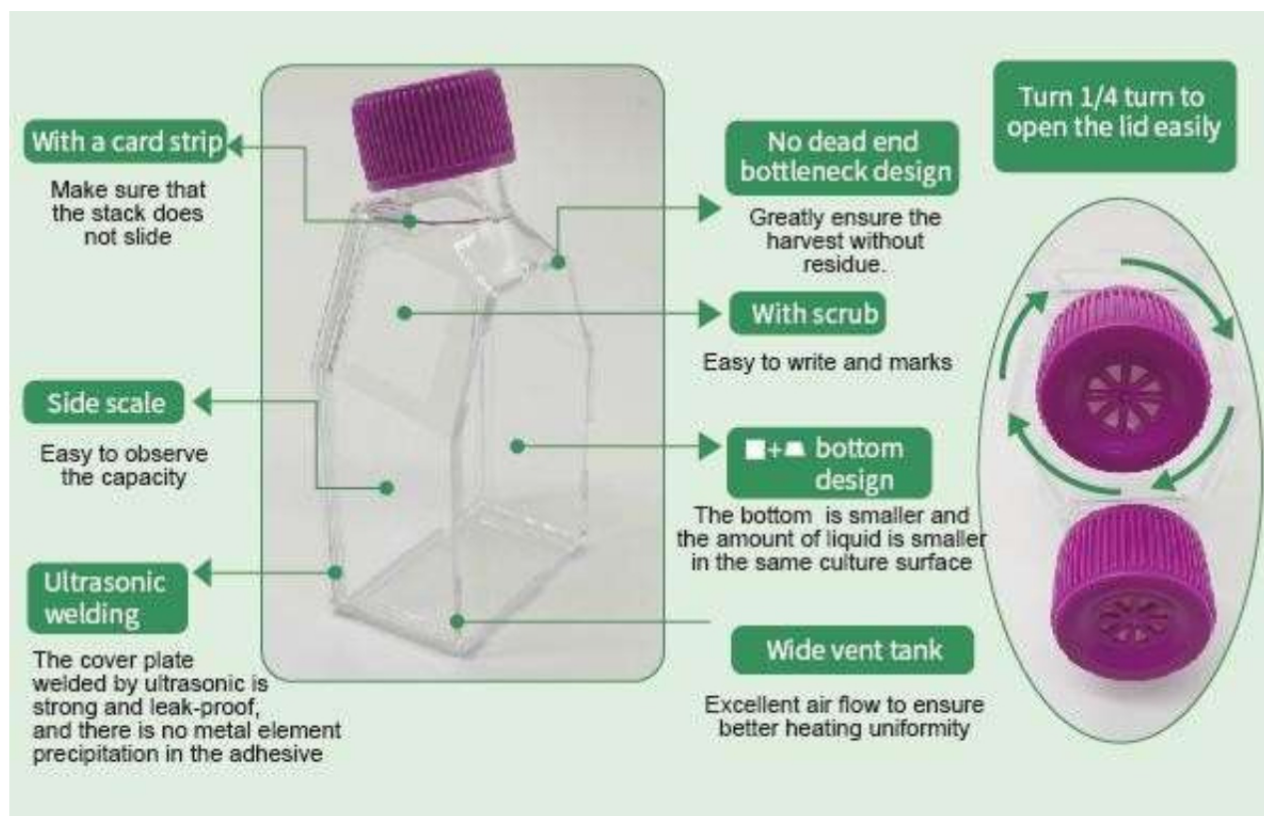
□ Madeofpolystyrene

□ RNase/DNase-free

□ Human DNA-free

□ Non-pyrogenic

□ Non-cytotoxic



| Order number | Description                                                                                                                                            | Package       |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| CCB06-025    | 25cm <sup>2</sup> ; Filter membrane cover; Easy to stick wall; Recommended working volume: 5-7ml Full capacity: 71ml Maximum lying capacity: 16ml      | 12/PK; 240/Cs |
| CCB06-025S   | 25cm <sup>2</sup> ; Seal cover; Easy to stick wall; Recommended working volume: 5-7ml Full capacity: 71ml Maximum lying capacity: 16ml                 | 12/PK; 240/Cs |
| CCB06-075    | 75cm <sup>2</sup> ; Filter membrane cover; Easy to stick wall; Recommended working volume: 15-25ml Full capacity: 254ml Maximum lying capacity: 70ml   | 5/PK; 100/Cs  |
| CCB06-075S   | 75cm <sup>2</sup> ; Seal cover; Easy to stick wall; Recommended working volume: 15-25ml Full capacity: 254ml Maximum lying capacity: 70ml              | 5/PK; 100/Cs  |
| CCB06-175    | 175cm <sup>2</sup> ; Filter membrane cover; Easy to stick wall; Recommended working volume: 45-55ml Full capacity: 635ml Maximum lying capacity: 210ml | 5/PK; 40/Cs   |
| CCB06-175S   | 175cm <sup>2</sup> ; Seal cover; Easy to stick wall; Recommended working volume: 45-55ml Full capacity: 635ml Maximum lying capacity: 210ml            | 5/PK; 40/Cs   |
| CCB06-225    | 225cm <sup>2</sup> ; Filter membrane cover; Easy to stick wall; Recommended working volume: 60-75ml Full capacity: 825ml Maximum lying capacity: 300ml | 5/PK; 30/Cs   |
| CCB06-225S   | 225cm <sup>2</sup> ; Seal cover; Easy to stick wall; Recommended working volume: 60-75ml Full capacity: 825ml Maximum lying capacity: 300ml            | 5/PK; 30/Cs   |

Each well is marked with a number and a letter for easy location. One end of the cap has two bevel guides to prevent cross contamination. The low volatilization tank around the hole can effectively reduce the liquid evaporation in the hole. Increased hole edges greatly reduce the risk of cross-contamination.

The innovative covered edge diversion design greatly improves the airflow exchange in the board

Special surface treatment, better wall adhesion effect, more uniform

6Well,12Well,24Well,48Well,96Well available

The bottom thickness is uniform and flat

irradiation sterilization

RNase/DNase-free

Human DNA-free

Non-pyrogenic

Non-cytotoxic



Ventilation Diversion Design



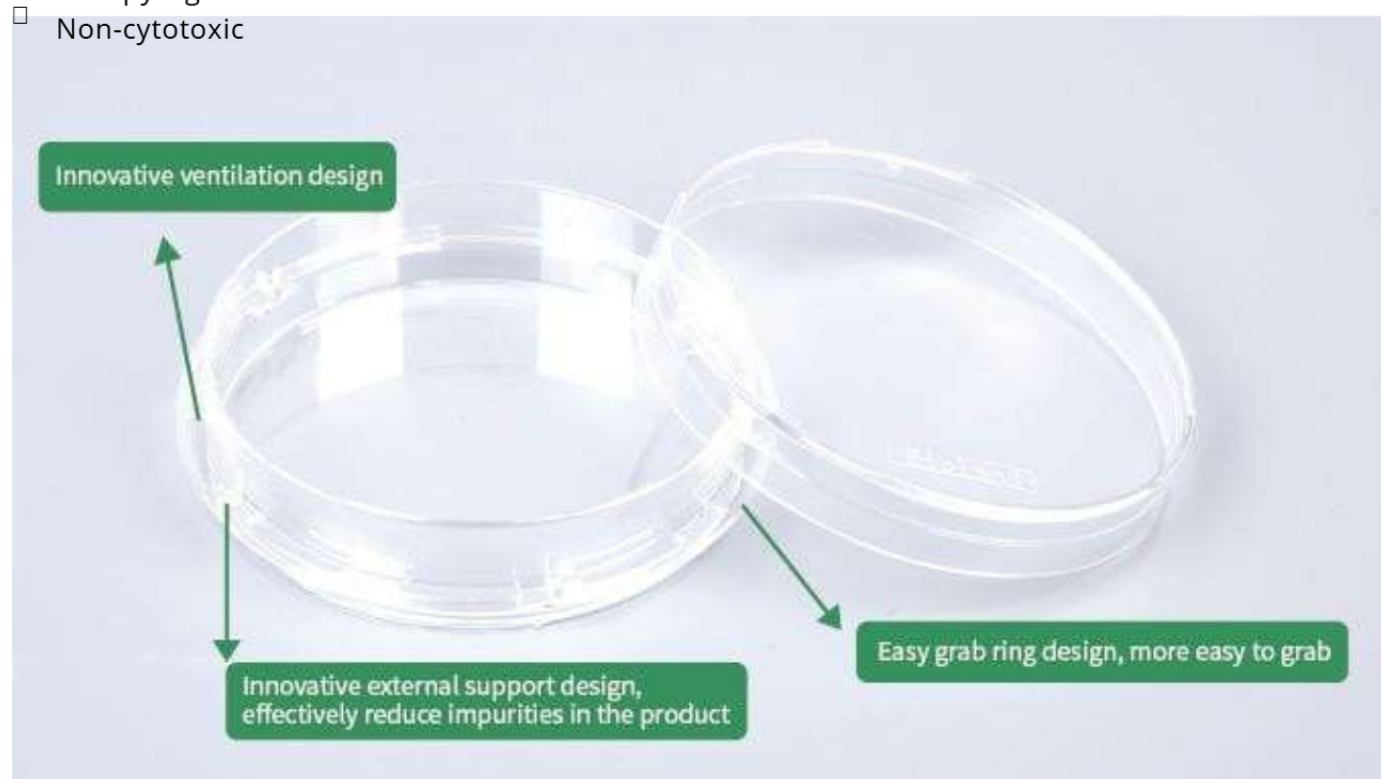
External Support Design

| Order number | Description                                    | Package              |
|--------------|------------------------------------------------|----------------------|
| CCP06-006    | 6 Well; Clear; TC-treat                        | 1 / pack; 50         |
| CCP06-012    | 12 Well; Clear; TC-treat                       | pieces/Cs 1 / pack;  |
| CCP06-024    | 24 Well; Clear; TC-treat                       | 50 pieces/Cs 1 /     |
| CCP06-048    | 48 Well; Clear; TC-treat                       | pack; 50 pieces/Cs 1 |
| CCP06-096    | 96 Well; Clear; TC-treat                       | / pack; 50 pieces/Cs |
| CCP06-096W   | 96Well; White ; TC-treat                       | 1 / pack; 50         |
| CCP06-096S   | 96 Well; Black; TC-treat                       | pieces/Cs 1 / pack;  |
| CCP06N-096W  | Inspection Plate,96 Well; White ; TC Non-treat | 50 pieces/Cs 1 /     |
| CCP06N-096S  | Inspection Plate,96 Well; Black ; TC Non-treat | pack; 50 pieces/Cs 1 |
|              |                                                | / pack; 50 pieces/Cs |
|              |                                                | 1 / pack; 50         |
|              |                                                | pieces/Cs            |



## DARSUN™ Cell Culture Dish

- Innovative design of cell culture dishes improved the guarantee of experimental results. At the same time, it brings more comfortable feeling in use
- Innovative external support design reduces the risk of impurities from wear falling into the dish
- Innovative easy-to-grab design effectively avoids the risk of the bottom dish not holding or falling when picking
- easy to grab ring opening design, so that the air is more smooth, the air in the dish can get excellent exchange
- Special surface treatment, better wall adhesion effect, more uniform
- flat and Clear for microscopic observation
- The bottom thickness is uniform and flat
- irradiation sterilization
- RNA se /DNA se -f r e e
- Human DNA-free
- Non-pyrogenic
- Non-cytotoxic



| Order number | Description                              | Package                                        |
|--------------|------------------------------------------|------------------------------------------------|
| CCD06-035A   | Easy to grasp ventilation type; 35x12mm  | 10/package;500/C                               |
| CCD06-060A   | Easy to grasp ventilation type; 60x15mm  | s                                              |
| CCD06-100A   | Easy to grasp ventilation type; 100x20mm | 10/package;500/C                               |
| CCD06-150A   | Easy to grasp ventilation type; 150x20mm | s<br>10/package;300/C<br>s<br>5/package;100/Cs |

## DARSUN™ Cell Culture Series, Non-Tc Treat

These suspension cells with round cell bodies have large growth space in culture medium, can grow for a long time, and have strong reproduction, which is convenient for cell metabolism research.

DARSUN offers specialized suspension cell culture consumables for this purpose.

Typical examples are: S180 sarcoma cells/white blood cells/K562 cells/HL-60 cells

- ☐ RNase/DNase-free
- ☐ Human DNA-free
- ☐ Non-pyrogenic
- ☐ Non-cytotoxic
- ☐ sterile



| Order number | Description                                                              | Package      |
|--------------|--------------------------------------------------------------------------|--------------|
| CCB06N-025   | 25cm <sup>2</sup> Cell culture Flask; Non-Tc Treat, Filter membrane cap  | 12/PK;       |
| CCB06N-025S  | 25cm <sup>2</sup> Cell culture Flask; Non-Tc Treat, Seal cover           | 240/Cs       |
| CCB06N-075   | 75cm <sup>2</sup> Cell culture Flask; Non-Tc Treat, Filter membrane cap  | 12/PK;       |
| CCB06N-075S  | 75cm <sup>2</sup> Cell culture Flask; Non-Tc Treat, Seal cover           | 240/Cs 5/PK; |
| CCB06N-175   | 175cm <sup>2</sup> Cell culture Flask; Non-Tc Treat, Filter membrane cap | 100/Cs 5/PK; |
| CCB06N-175S  | 175cm <sup>2</sup> Cell culture Flask; Non-Tc Treat, Seal cover          | 100/Cs 5/PK; |
| CCB06N-225   | 225cm <sup>2</sup> Cell culture Flask; Non-Tc Treat, Filter membrane cap | 40/Cs 5/PK;  |
| CCB06N-225S  | 225cm <sup>2</sup> Cell culture Flask; Non-Tc Treat, Seal cover          | 40/Cs 5/PK;  |
| CCD06N-035A  | Cell Culture Dish; Non-Tc Treat, 35x12mm                                 | 30/Cs 5/PK;  |
| CCD06N-060A  | Cell Culture Dish; Non-Tc Treat, 60x15mm                                 | 30/Cs 10/PK; |
| CCD06N-100A  | Cell Culture Dish; Non-Tc Treat, 100x20mm                                | 500/Cs       |
| CCD06N-150A  | Cell Culture Dish; Non-Tc Treat, 150x20mm                                | 10/PK;       |
| CCP06N-006   | 6-well Cell Culture Plate; Non-Tc Treat                                  | 500/Cs       |
| CCP06N-012   | 12-well Cell Culture Plate; Non-Tc Treat                                 | 10/PK;       |
| CCP06N-024   | 24-well Cell Culture Plate; Non-Tc Treat                                 | 300/Cs 5/PK; |
| CCP06N-048   | 48-well Cell Culture Plate; Non-Tc Treat                                 | 100/Cs 1/PK; |
| CCP06N-096   | 96-well Cell Culture Plate; Non-Tc Treat                                 | 50/Cs 1/PK;  |

## DARSUN™ Disposable sterile Erlenmeyer Flask

- ☐ Erlenmeyer Flask suitable for Suspension culture. Such as: bacteria, fungi, animal cells, plant cells and so on.
- ☐ Can also be applied to some pairs
- ☐ Cells with high oxygen requirements. It is also an ideal choice for medium preparation and storage.
- ☐ Seal cover and filter cover are provided
- ☐ Made of PETG material, excellent clarity, the scale is molded
- ☐ 125ml, 250ml, 500ml, 1000ml are available
- ☐ RNase/DNase-free
- ☐ Human DNA-free
- ☐ Non-pyrogenic
- ☐ Non-cytotoxic
- ☐ sterile



| Order number | Description                                                         | Package      |
|--------------|---------------------------------------------------------------------|--------------|
| FPB07-125    | Filter membrane cap; 125ml Recommended working volume: 25ml-45ml    | 1 /PK; 40/CS |
| FPB07-125S   | Seal Cap; 125ml Recommended working volume: 25ml-45ml               | 1 /PK; 40/CS |
| FPB07-250    | Filter membrane cap; 250ml Recommended working volume: 50ml-90ml    | 1 /PK; 40/CS |
| FPB07-250S   | Seal Cap; 250ml Recommended working volume: 50ml-90ml               | 1 /PK; 40/CS |
| FPB07-500    | Filter membrane cap; 500ml Recommended working volume: 100ml-175ml  | 1 /PK; 20/CS |
| FPB07-500S   | Seal Cap; 500ml Recommended working volume: 100ml-175ml             | 1 /PK; 20/CS |
| FPB07-1000   | Filter membrane cap; 1000ml Recommended working volume: 200ml-350ml | 1 /PK; 15/CS |
| FPB07-1000S  | Seal Cap; 1000ml Recommended working volume: 200ml-350ml            | 1 /PK; 15/CS |
| FPB07-3000   | Filter membrane cap; 3000ml Recommended working volume: 600-1350ml  | 1 /PK; 6/CS  |
| FPB07-5000   | Filter membrane cap; 5000ml Recommended working volume: 1000-2500ml | 1 /PK; 4/CS  |
| SC05-3-      | Sterile transfer Cap for 2L, 3L, 5L, MPC                            | 1 /PK; 2/CS  |
| 100A SC05-   | Sterile transfer Cap for 2L, 3L, 5L, Heat seal                      | 1 /PK; 2/CS  |
| 3-100B       | Sterile transfer Cap for 2L, 3L, 5L, Sampling                       | 1 /PK; 2/CS  |

## DARSUN™ Disposable Serological Pipette

It is suitable for tissue and cell culture

Tested for sterility, accuracy and endotoxin levels, certified pyrogen free

Polystyrene material, high clarity, Clear scale, accurate pipetting

liquid-tight

☐ RNase/DNase-free

☐ Human DNA-free

☐ Non-pyrogenic

☐ Non-cytotoxic

☐ Sterile

| Order number | Description                                      | Package        |
|--------------|--------------------------------------------------|----------------|
| PT06-1       | 1ml, Sterile, individual packaging               | 50/PK; 1000/CS |
| PT06-2       | 2ml, Sterile, individual packaging               | 50/PK; 500/CS  |
| PT06-5       | 5ml, Sterile, individual packaging               | 50/PK; 200/CS  |
| PT06-10      | 10ml, Sterile, individual packaging Stretch type | 50/PK; 200/CS  |
| PT06-10A     | 10ml, Sterile, individual packaging Welded type  | 50/PK; 200/CS  |
| PT06-25      | 25ml, Sterile, individual packaging              | 25/PK; 200/CS  |
| PT06-50      | 50ml, Sterile, individual packaging              | 25/PK; 100/CS  |
| PT06-100     | 100ml, Sterile, individual packaging             | 20/PK; 100/CS  |



## DARSUN™ Cell Strainer

☐ Ideal for stem cell and tissue-derived primary cell preparation

☐ Suitable for DARSUN, Corning, Thermo and other mainstream brands 50ml centrifuge tube / cell culture tube

☐ Adopted PP shell, Nylon filter

☐ Different pore size: 40, 70 or 100um.

☐ Human DNA-free

☐ Non-pyrogenic

☐ Non-cytotoxic

☐ Sterile

| Order number | Description   | Package    |
|--------------|---------------|------------|
| CS05-040     | Blue; 40um    | 1 /PK;     |
| CS05-070     | Natural; 70um | 50/CS 1    |
| CS05-100     | Yellow; 100um | /PK; 50/CS |

1 /PK;

## DARSUN™ Sterile media square bottles / PET Serum bottle

☐ Suitable for packaging and transporting liquid media, buffers and serums

☐ Square design for greater use of storage space

☐ Leak-proof, graduated

☐ PET material, with durability and clear clarity and other advantages

☐ Human DNA-free

☐ Non-pyrogenic

☐ Non-cytotoxic

☐ Sterile

| Order number | Description         | Package        |
|--------------|---------------------|----------------|
| MCB09-50     | 50ml; White Cap     | 72 /PK; 144/CS |
| MCB09-125    | 125ml; Natural Cap  | 25/PK; 100/CS  |
| MCB09-250    | 250ml; Natural Cap  | 30/PK; 60/CS   |
| MCB09-500    | 500ml; Natural Cap  | 24/PK; 48/CS   |
| MCB09-1000   | 1000ml; Natural Cap | 12/PK; 24/CS   |

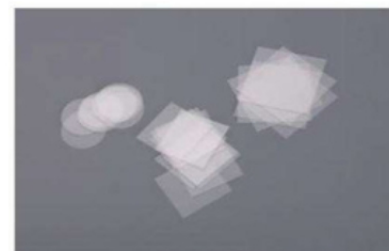




## DARSUN™ Cell Culture Coverslip

- High optical glass material, surface treatment, can promote the growth of cells directly on the slide
- Stick to the wall, not easy to fall off, to avoid the loss of cells due to metastasis
- No processing required, ready to use, No.1 thickness (0.13-0.17mm)
- It is suitable for immunohistochemistry, immunofluorescence, in situ hybridization and other experiments

| Order number | Description            | Package |
|--------------|------------------------|---------|
| CCG33-12C    | Circle; Diameter: 12mm | 100/Bo  |
| CCG33-15C    | Circle; Diameter: 15mm | x       |
| CCG33-20C    | Circle; Diameter: 20mm | 100/Bo  |
| CCG33-25C    | Circle; Diameter: 25mm | x       |
| CCG33-28C    | Circle; Diameter: 28mm | 100/Bo  |



DARSUN™ Glass culture medium bottle with scale

High borosilicate material, in line with USP Type I standards. Can keep the pH value of the medium or biological sample stable for a long time. No effluent pollution.

\* Made of German ISOLAB standard borosilicate hydrochloric acid 3.3 glass

\* Can withstand high temperature autoclave sterilization

\* Special dumping port design ensures that the dumping is solution avoiding dripping

\* with scale

\* With writing area

\* Optional standard Cap or puncture Cap



| Order NO. | Description                                                                                                              | Package       |
|-----------|--------------------------------------------------------------------------------------------------------------------------|---------------|
| 435-125   | 435-125 125ml medium bottle without lid, transparent; No Cap, 56x123mm                                                   | 60Pcs/C       |
| 755-125A  | 125ml medium bottle with lid, transparent; PBT resin Cap; Chloroprene rubber pad, 56x123mm                               | S<br>60Pcs/C  |
| 755-125B  | 125ml culture medium bottle with puncture cap, transparent; PBT resin can puncture cap; Chloroprene rubber pad, 56x123mm | S<br>60Pcs/CS |
| 755-125W  | 125ml culture medium bottle with puncture cap, transparent; With wheaton puncture Cap (DWK: 240680), 56x123mm            | 60Pcs/CS      |
| 437-250   | 250ml medium bottle without cap, transparent; 66x156mm                                                                   | 40Pcs/C       |
| 757-250A  | 250ml medium bottle with lid, transparent; PBT resin Cap; Chloroprene rubber pad, 66x156                                 | S<br>40Pcs/C  |
| 757-250B  | 250ml culture medium bottle with puncture cap, transparent; PBT resin can puncture cap; Chloroprene rubber pad, 66x156mm | S<br>40Pcs/CS |
| 757-250W  | 250ml culture medium bottle with puncture cap, transparent; Fitted with wheaton Puncture Cap (DWK: 240680) 66x156mm      | 40Pcs/CS      |
| 439-500   | 500ml medium bottle without Cap, transparent, 85x182mm                                                                   | 24Pcs/C       |
| 759-500A  | 500ml medium bottle with cap, transparent; PBT resin cap; Chloroprene rubber pad, 85x182mm                               | S<br>24Pcs/C  |
| 759-500B  | 500ml culture medium bottle with puncture cap, transparent; PBT resin can puncture cap; Chloroprene rubber pad, 85x182mm | S<br>24Pcs/CS |
| 759-500W  | 500ml culture medium bottle with puncture cap, transparent; With wheaton puncture cap (DWK: 240680) 85x182mm             | 24Pcs/CS      |
| 33-       | standard Cap, PBT resin Cap; Chloroprene rubber pad, 33mm                                                                | 100           |
| 430A      | puncture cap, PBT resin puncture cover; Chloroprene rubber pad, 33mm                                                     | Pcs/Box       |

100 Pcs/  
Box

## DARSUN™ Confocal Dish

DARSUN™ Confocal Dish easily performs high-quality imaging in a 35mm petri dish.

Combining the convenience of a standard 35mm petri dish with the imaging benefits of a coverglass provides the excellent optical properties required for high magnification microscopy and confocal image analysis.

- ☐ Improve the quality of high-resolution cell culture images
- ☐ Reduce evaporation and contamination of the medium
- ☐ Human DNA-free
- ☐ Non-pyrogenic
- ☐ Non-cytotoxic
- ☐ Sterile



Recommended use:

Fluorescence microscopy imaging, phase contrast microscopy imaging, confocal microscopy imaging, live cell imaging

Differential Interferometric Contrast microscopy, Fluorescence in Situ Hybridization (FISH)

| Order number | Description                                           | Package                    |
|--------------|-------------------------------------------------------|----------------------------|
| CDG35-16     | Dish diameter: 35mm; Glass bottom diameter:           | 10/PK;                     |
| CDG35-20     | 16mm Dish diameter: 35mm; Glass bottom diameter: 20mm | 100/CS<br>10/PK;<br>100/CS |

## DARSUN™ 96 Well Black/Clear Bottom Plate, TC Surface

96-Well Optical-Bottom Plates with Polymer Base have a solid polystyrene black or white upper structures with a polystyrene film at the bottom of the plate.

The plates are optimized for fluorescence and luminescence in cell culture and microscopic applications.

White or black polystyrene upper structure with polymer or coverglass bottom plates combine the optical clarity of virgin crystalline polystyrene with optimal surface for a wider range of HTS applications.

Background, autofluorescence and crosstalk are improved when you use Black or White microplates. Black microplates are recommended for fluorescence measurements; with minimum back-scattered light and background fluorescence



- ☐ White microplates are recommended for luminescence measurements; with maximum reflection and minimal autoluminescence
- ☐ Available in black for fluorescence assays or white for luminescence and fluorescence assays;
- ☐ both with clear bottoms
- ☐ Polymer base plate
- ☐ Working range, 50-200  $\mu$ L/well
- ☐ RNase/DNase-free
- ☐ Human DNA-free
- ☐ Non-pyrogenic
- ☐ Non-cytotoxic
- ☐ Sterile

| Order number | Description                                                          | Package                                                     |
|--------------|----------------------------------------------------------------------|-------------------------------------------------------------|
| PG06-W96CC   | 96-well white glass bottom microporous plate; Cell culture surface   | 1/PK;                                                       |
| PG06-96CC    | 96-well black glass bottom microplate; Cell culture surface          | 20/CS                                                       |
| PG06-W96C    | 96-well white polymer bottom microporous plate; Cell culture surface | 1/PK;                                                       |
| PG06-96C     | 96-well black polymer bottom microporous plate; Cell culture surface | 20/CS                                                       |
| PG06-W96     | 96-well white polymer bottom microporous plate; Untreated surface    | 1/PK;                                                       |
| PG06-96      | 96-well black polymer bottom microporous plate; Untreated surface    | 20/CS<br>1/PK;<br>20/CS<br>1/PK;<br>20/CS<br>1/PK;<br>20/CS |

## DARSUN Cell Culture Inserts in Multi-Well Plates

- ☐ The membrane is made of polycarbonate membrane with superhydrophilic surface
- ☐ Most cell types can be grown without substrate coating using the Biolaand cell culture chamber
- ☐ Four pore sizes: 0.4, 3, 5, and 8 micron
- ☐ There are three sizes of 6-well, 12-well and 24-well cell culture plates available
- ☐ RNase/ DNase -free
- ☐ Human DNA-free
- ☐ Non-pyrogenic
- ☐ Non-cytotoxic



- ☐ Sterile

Polycarbonate membranes have higher pore density, allow more exchange through the membrane, and have excellent cell adhesion properties, making them ideal for transport studies and other applications where optimal

cell growth is required. Polycarbonate membranes are also very suitable for barrier analysis. It has a higher, more sustained, and more stable transepithelial resistance

overall than other membranes. It has a higher, more sustained, and more stable transepithelial resistance

over other membranes. It has a higher, more sustained, and more stable transepithelial resistance

- ☐ Cell-cell interaction
- ☐ Cell-substrate interaction

- ☐ Detection of tumor migration and invasion
- ☐ Epithelial and endothelial cell barrier assays
- ☐ Leather/skin and epithelial tissue model
- ☐ Study of chemotaxis
- ☐ Co-culture research:

| Order number                                          | Description                           | Package               |
|-------------------------------------------------------|---------------------------------------|-----------------------|
| <b>DARSUN Cell Culture Chamber, 6-well plate kit</b>  |                                       |                       |
| CER06-004                                             | PC membrane; Membrane aperture: 0.4um | 1 set/bag; 10 sets/Cs |
| CER06-030                                             | PC membrane; Membrane aperture: 3um   | 1 set/bag; 10 sets/Cs |
| CER06-030                                             | PC membrane; Membrane aperture: 5um   | 1 set/bag; 10 sets/Cs |
| CER06-030                                             | PC membrane; Membrane aperture: 8um   | 1 set/bag; 10 sets/Cs |
| <b>DARSUN Cell Culture Chamber, 12-well plate kit</b> |                                       |                       |
| CER12-004                                             | PC membrane; Membrane aperture: 0.4um | 1 set/bag; 10 sets/Cs |
| CER12-030                                             | PC membrane; Membrane aperture: 3um   | 1 set/bag; 10 sets/Cs |
| CER12-030                                             | PC membrane; Membrane aperture: 5um   | 1 set/bag; 10 sets/Cs |
| CER12-030                                             | PC membrane; Membrane aperture: 8um   | 1 set/bag; 10 sets/Cs |
| <b>DARSUN Cell Culture Chamber, 24-well plate kit</b> |                                       |                       |
| CER24-004                                             | PC membrane; Membrane aperture: 0.4um | 1 set/bag; 10 sets/Cs |
| CER24-030                                             | PC membrane; Membrane aperture: 3um   | 1 set/bag; 10 sets/Cs |
| CER24-030                                             | PC membrane; Membrane aperture: 5um   | 1 set/bag; 10 sets/Cs |
| CER24-030                                             | PC membrane; Membrane aperture: 8um   | 1 set/bag; 10 sets/Cs |



## DARSUN™ Disposable vacuum filter/sterilizing filter

Self-contained filter system with filter funnel (top filter) receiving bottle and interface.

- Pre-filtration is very convenient and is an ideal tool for removing bacteria or impurities from a large number of biological liquids in the laboratory
- Polyethersulfone (PES), cellulose acetate (CA), polyvinylidene fluoride (PVDF) and other microporous filter membranes are provided
- Different membrane pore sizes can be used for the treatment of different biological liquids.
- Ergonomic design, the upper and lower containers are graduated, making the filtration more convenient and easy to operate
- Filtration efficiency (0.22µm): LRV > 7 deficient Shortwave monomonas, ATCC19146, ASTM Bacterial Challenge test
- Sterile, RNase/DNase-free, Non-pyrogenic, Non-cytotoxic, no surfactant, very low extraction
- Biosafety testing, USP <87>, USP <88>
- Single-use, pre-sterilized with gamma rays
- Very low protein adsorption rate <1.5% (PES)
- Ultra-high flow rates and fluxes filter liquids faster and more
- The GL45 interface is suitable for conventional laboratory receiving containers.
- A 0.1µm aperture can be used for mycoplasma removal in liquids
- The pore size of 0.22µm can be used for debacterialization and filtration of liquid
- The aperture of 0.45µm can be used for liquid clarification and filtration



| Order number                                                                                        | Description                                             | Package |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------|
| <b>DARSUN™ Disposable vacuum filter/Sterilizing filter; Polyethersulfone membrane (PES)</b>         |                                                         |         |
| PES50-S250                                                                                          | 250ml; PES membrane; Diameter: 50mm; Aperture: 0.1µm    | 1/PK;   |
| PES90-S500                                                                                          | 500ml; PES membrane; Diameter: 90mm; Aperture: 0.1µm    | 12/CS   |
| PES90-S1000                                                                                         | 1000ml; PES membrane; Diameter: 90mm; Aperture: 0.1µm   | 1/PK;   |
| PES50-250                                                                                           | 250ml; PES membrane; Diameter: 50mm; Aperture: 0.22µm   | 12/CS   |
| PES75-500                                                                                           | 500ml; PES membrane; Diameter: 90mm; Aperture: 0.22µm   | 1/PK;   |
| PES90-1000                                                                                          | 1000ml; PES membrane; Diameter: 90mm; Aperture: 0.22µm  | 12/CS   |
| PES50-L250                                                                                          | 250ml; PES membrane; Diameter: 50mm; Aperture: 0.45µm   | 1/PK;   |
| PES90-L500                                                                                          | 500ml; PES membrane; Diameter: 90mm; Aperture: 0.45µm   | 12/CS   |
| PES90-L1000                                                                                         | 1000ml; PES membrane; Diameter: 90mm; Aperture: 0.45µm  | 1/PK;   |
| <b>DARSUN™ Disposable vacuum filter/Sterilizing filter; Polyvinylidene fluoride membrane (PVDF)</b> |                                                         | 12/CS   |
| PVDF50-S250                                                                                         | 250ml; PVDF membrane; Diameter: 50mm; Aperture: 0.1µm   | 1/PK;   |
| PVDF90-S500                                                                                         | 500ml; PVDF membrane; Diameter: 90mm; Aperture: 0.1µm   | 12/CS   |
| PVDF90-S1000                                                                                        | 1000ml; PVDF membrane; Diameter: 90mm; Aperture: 0.1µm  | 1/PK;   |
| PVDF50-250                                                                                          | 250ml; PVDF membrane; Diameter: 50mm; Aperture: 0.22µm  | 12/CS   |
| PVDF75-500                                                                                          | 500ml; PVDF membrane; Diameter: 90mm; Aperture: 0.22µm  | 1/PK;   |
| PVDF90-1000                                                                                         | 1000ml; PVDF membrane; Diameter: 90mm; Aperture: 0.22µm | 12/CS   |
| PVDF50-L250                                                                                         | 250ml; PVDF membrane; Diameter: 50mm; Aperture: 0.45µm  | 1/PK;   |
| PVDF90-L500                                                                                         | 500ml; PVDF membrane; Diameter: 90mm; Aperture: 0.45µm  | 12/CS   |
| PVDF90-L1000                                                                                        | 1000ml; PVDF membrane; Diameter: 90mm; Aperture: 0.45µm | 1/PK;   |
| <b>DARSUN™ Disposable vacuum filter/Sterilizing filter; Cellulose acetate membrane (CA)</b>         |                                                         | 12/CS   |
| CA50-250                                                                                            | 250ml; CA membrane; Diameter: 50mm; Aperture: 0.22µm    | 1/PK;   |
| CA75-500                                                                                            | 500ml; CA membrane; Diameter: 90mm; Aperture: 0.22µm    | 12/CS   |
| CA90-1000                                                                                           | 1000ml; CA membrane; Diameter: 90mm; Aperture: 0.22µm   | 1/PK;   |
| CA50-L250                                                                                           | 250ml; CA membrane; Diameter: 50mm; Aperture: 0.45µm    | 12/CS   |
| CA90-L500                                                                                           | 500ml; CA membrane; Diameter: 90mm; Aperture: 0.45µm    | 1/PK;   |
| CA90-L1000                                                                                          | 1000ml; CA membrane; Diameter: 90mm; Aperture: 0.45µm   | 12/CS   |

Note: DARSUN™ Disposable vacuum filter/sterilizing filter can provide more membrane materials, more aperture specifications, contact customer service staff.

# DARSUN

## □ DARSUN™ Disposable Sterile Top Filter

It provides polyethersulfone(PES),cellulose acetate(CA),polyvinylidene fluoride(PVDF) and other microporous filter membranes, which can be used for the treatment of different biological liquids.

- Single-use, pre-sterilized with gamma rays
- Filtration efficiency (0.22μm):LRV>7 deficient Shortwave monomonas,
- ATCC19146, ASTM Bacterial Challenge test
- Biosafety testing, USP<87>, USP<88>
- Sterile, RNase/DNase-free, Non-pyrogenic, Non-cytotoxic, no surfactant, very low extraction
- Very low protein adsorption rate <1.5% (PES)
- Ultra-high flow rates and fluxes filter liquids faster and more
- The GL45 interface is suitable for conventional laboratory receiving containers.
- Ergonomic design, the upper and lower containers are graduated, making the filtration more convenient and easy to operate



| Order number                                                | Description                                             | Package |
|-------------------------------------------------------------|---------------------------------------------------------|---------|
| DARSUN™ Top Filter; Polyethersulfone membrane (PES)         |                                                         |         |
| PES50-S250N                                                 | 250ml; PES membrane; Diameter: 50mm; Aperture: 0.1μm    | 1/PK;   |
| PES90-S500N                                                 | 500ml; PES membrane; Diameter: 90mm; Aperture: 0.1μm    | 24/CS   |
| PES90-S1000N                                                | 1000ml; PES membrane; Diameter: 90mm; Aperture: 0.1μm   | 1/PK;   |
| PES50-250N                                                  | 250ml; PES membrane; Diameter: 50mm; Aperture: 0.22μm   | 24/CS   |
| PES75-500N                                                  | 500ml; PES membrane; Diameter: 90mm; Aperture: 0.22μm   | 1/PK;   |
| PES90-1000N                                                 | 1000ml; PES membrane; Diameter: 90mm; Aperture: 0.22μm  | 24/CS   |
| PES50-L250N                                                 | 250ml; PES membrane; Diameter: 50mm; Aperture: 0.45μm   | 1/PK;   |
| PES90-L500N                                                 | 500ml; PES membrane; Diameter: 90mm; Aperture: 0.45μm   | 24/CS   |
| PES90-L1000N                                                | 1000ml; PES membrane; Diameter: 90mm; Aperture: 0.45μm  | 1/PK;   |
| DARSUN™ Top Filter; Polyvinylidene fluoride membrane (PVDF) |                                                         | 24/CS   |
| PVDF50-250N                                                 | 250ml; PVDF membrane; Diameter: 50mm; Aperture: 0.22μm  | 1/PK;   |
| PVDF75-500N                                                 | 500ml; PVDF membrane; Diameter: 90mm; Aperture: 0.22μm  | 24/CS   |
| PVDF90-1000N                                                | 1000ml; PVDF membrane; Diameter: 90mm; Aperture: 0.22μm | 1/PK;   |
| PVDF50-L250N                                                | 250ml; PVDF membrane; Diameter: 50mm; Aperture: 0.45μm  | 24/CS   |
| PVDF90-L500N                                                | 500ml; PVDF membrane; Diameter: 90mm; Aperture: 0.45μm  | 1/PK;   |
| PVDF90-L1000N                                               | 1000ml; PVDF membrane; Diameter: 90mm; Aperture: 0.45μm | 24/CS   |
| DARSUN™ Top Filter; Cellulose acetate membrane (CA)         |                                                         | 1/PK;   |
| CA50-250N                                                   | 250ml; CA membrane; Diameter: 50mm; Aperture: 0.22μm    | 24/CS   |
| CA75-500N                                                   | 500ml; CA membrane; Diameter: 90mm; Aperture: 0.22μm    | 1/PK;   |
| CA90-1000N                                                  | 1000ml; CA membrane; Diameter: 90mm; Aperture: 0.22μm   | 24/CS   |
| CA50-L250N                                                  | 250ml; CA membrane; Diameter: 50mm; Aperture: 0.45μm    | 1/PK;   |
| CA90-L500N                                                  | 500ml; CA membrane; Diameter: 90mm; Aperture: 0.45μm    | 24/CS   |
| CA90-L1000N                                                 | 1000ml; CA membrane; Diameter: 90mm; Aperture: 0.45μm   | 24/CS   |

Note: DARSUN™ Disposable vacuum filter/sterilizing filter can provide more membrane materials, more aperture specifications, contact customer service staff.

24/CS

1/PK;

24/CS

1/PK;

24/CS

## DARSUN™ Sterile filter Receiving Bottle/Storage Bottle

- ☐ The use of radiation sterilization can reduce the contamination of the sample.
- ☐ Use with DARSUN™ Top Filter or as a container to store media.
- ☐ GL45 connector, screw cap, leak proof
- ☐ Biosafety testing, USP<87>, USP<88>
- ☐ RNAse/DNase free
- ☐ Human DNA-free
- ☐ Non-pyrogenic
- ☐ Non-cytotoxic
- ☐ Sterile



| Order number | Description                      | Package |
|--------------|----------------------------------|---------|
| GL06-250     | 250ml, Bottle body PS, Cap HDPE  | 1/PK;   |
| GL06-500     | 500ml, Bottle body PS, Cap HDPE  | 24/CS   |
| GL06-1000    | 1000ml, Bottle body PS, Cap HDPE | 1/PK;   |
|              |                                  | 24/CS   |
|              |                                  | 1/PK;   |
|              |                                  | 24/CS   |



## DARSUN™ PETG Biograde Frozen Bottle

Suitable for the preparation and storage of active drugs, intermediates, buffers, media and other laboratory liquids. The low permeability of CO<sub>2</sub> and O<sub>2</sub> in commonly used plastics PETG can be used as a storage for pH-sensitive substances.

- ☐ 100,000 clean workshop production
- ☐ PETG bottle body; HDPE bottle cap
- ☐ Sterile, enzyme-free, pyrogen free, cytotoxic free
- ☐ Bag packing
- ☐ Square design for greater use of storage space
- ☐ Leak-proof, graduated
- ☐ Used for packaging and transporting liquid media, buffers and serums



| Order number | Description                                     | Package     |
|--------------|-------------------------------------------------|-------------|
| MCB19-30     | PETG bottle body; Cap HDPE; 30ml; Natural lid   | 6/PK;       |
| MCB19-50     | PETG bottle body; Cap HDPE; 60ml; Natural lid   | 144/CS      |
| MCB19-125    | PETG bottle body; Cap HDPE; 125ml; Natural lid  | 6/PK;       |
| MCB19-250    | PETG bottle body; Cap HDPE; 250ml; Natural lid  | 144/CS      |
| MCB19-500    | PETG bottle body; Cap HDPE; 500ml; Natural lid  | 5/PK;       |
| MCB19-1000   | PETG bottle body; Cap HDPE; 1000ml; Natural lid | 100/CS      |
|              |                                                 | 5/PK; 60/CS |
|              |                                                 | 4/PK; 48/CS |
|              |                                                 | 4/PK; 24/CS |

## DARSUN™ Biograde Serological Pipette

- ☐ The unique scale design guarantees higher accuracy:  $\pm 1\%$
- ☐ Ink-free printing to avoid contamination caused by ink shedding
- ☐ The polyethylene sintered filter element ensures the ventilation flow while avoiding the pollution of fiber and wool
- ☐ With the color of the joint, the specification is clear
- ☐ Shorter than the conventional design, more convenient operation, narrow space operation more flexible
- ☐ Plastic packaging, avoid paper scraps, hydrogel powder pollution
- ☐ Class 100,000 clean workshop production, in line with ISO 9001-2015, ISO 13485-2016 quality management system certification
- ☐ RNase/ DNase - free
- ☐ Human DNA-free
- ☐ Non-pyrogenic
- ☐ Non-cytotoxic
- ☐ Sterile



| Order number | Description                        | Package |
|--------------|------------------------------------|---------|
| PTB06-5      | 5ml, sterile individual packaging  | 50/PK;  |
| PTB06-10     | 10ml, sterile individual packaging | 200/CS  |
| PTB06-25     | 25ml, sterile individual packaging | 50/PK;  |
|              |                                    | 200/CS  |
|              |                                    | 25/PK;  |
|              |                                    | 200/CS  |

# Microbiological Testing

Microorganisms include: bacteria, viruses, fungi and some small protozoa, microscopic algae and other a large group of organisms. Because of its small size, light weight, strong adaptability and strong reproductive ability, microorganisms are widely distributed in nature and closely related to human beings. It exists in medicine, agriculture, food, cosmetics, feed, medicine, the environment and other people can touch every corner



## Microbiological Testing

## DARSUN

### ™ Petri dish

Designed for microbiology to grow microorganisms on solid media

The shallow petri dish can improve the space utilization of the incubator as much as possible

After mirror treatment, high optical quality of petri dishes can be ensured

Used for bacterial culture

- ☐ RNase/DNase-free
- ☐ Human DNA-free
- ☐ Non-pyrogenic
- ☐ Non-cytotoxic
- ☐ Sterile

| Order number | Description                | Package |
|--------------|----------------------------|---------|
| BCD06-060B   | Diameter: 60, height: 15mm | 10/PK;  |
| BCD06-090A   | Diameter: 90, height: 15mm | 500/CS  |
| BCD06-090B   | Diameter: 90, height: 20mm | 10/PK;  |

500/CS

### DARSUN™ Disposable Loop & Needle

10/PK;

Suitable for microbe inoculation

300/CS

- ☐ Available in 1ul and 10ul sizes
- ☐ Sterile, RNase/DNase free, pyrogen free
- ☐ Made of polypropylene material, high temperature and high pressure sterilization

| Order number | Description  | Package |
|--------------|--------------|---------|
| MIR05-01     | Blue; 1ul    | 10/PK;  |
| MIR05-10     | Orange; 10ul | 500/CS  |

10/PK;

500/CS

### DARSUN™ L-shaped Spreader

Disposable spreader is used for spreading microorganisms which is sterilized before the release.

suitable for spreading of microbes samples

- ☐ Sterile, RNase/DNase free, pyrogen free
- ☐ Made of polypropylene material, high temperature and high pressure sterilization
- ☐ Individual packaging

| Order number | Description                                     | Package       |
|--------------|-------------------------------------------------|---------------|
| LS05-1S      | L-shaped Spreader ;orange; Individual packaging | 10/PK; 500/CS |

### DARSUN 15ml/50ml Membrane reaction tube/centrifuge tube/shaker tubes

It is especially suitable for suspension cell culture, clonal selection, bacterial solution/strain resuscitation, small volume suspension culture and low protein adsorption of serological research.

The external dimension is the same as that of the 15ml/50ml centrifuge tube, which is suitable for most 15ml/50ml centrifuge devices.

The tube body is made of USP Class VI medical grade polypropylene. The cap is made of USP Class VI medical grade HDPE. High transparency, easy observation, belt scale

0.22um PTFE membrane can provide high dissolved oxygen, bacteria resistance and air permeability

- Sterile, RNase/DNase-free, Human DNA-free, Non-pyrogenic, Non-cytotoxic.

15ml centrifugal force tolerance :13000xg; 50ml centrifugal force tolerance: 17000xg

| Order NO.   | Description        | Package        |
|-------------|--------------------|----------------|
| ATS05-10-15 | 1 15ml, 10mm, PTFE | 10Pcs/Pk;10Pk/ |
| ATS05-12-50 | 50ml, 12mm, PTFE   | Cs             |

10Pcs/Pk;10Pk/





## DARSUN™ Sterile microbial detection filter membrane

DARSUN™ Microbial detection membrane was selected as unsupported, natural hydrophilic mixed cellulose filter membrane, using different pore sizes to enrich designated bacteria for culture. It can be widely used in various microbial analysis and research.

- Available in individual and continuous packaging, the continuous packaging grille film is suitable for

### DARSUN™ Membrane Dispenser Curve

- In line with ISO 7704, the most suitable for microbial retention and growth, microbial recovery > 90%
- Filtration efficiency: LRV > 7 (ATCC 19146 deficient *Shortwave monas*, ASTM Bacterial Challenge Test) High flow rate
- The grid lines on the membrane facilitate colony identification and counting, and do not affect colony growth
- Gamma rays pre-filtered, valid for 3 years



For "membrane filtration method" for solid, liquid, gas and other samples for microbial detection, especially for food hygiene industry or water monitoring in the total number of bacteria, fecal coliform, *Escherichia coli*, sterility testing, *Pseudomonas aeruginosa*, *Staphylococcus aureus*, etc., general microscopic inspection particle count or analysis.

| Order NO.   | Description                                                                                                         | Package   |
|-------------|---------------------------------------------------------------------------------------------------------------------|-----------|
| MCE47-022S  | Sterile microbial detection filter membrane; Diameter : 47mm;                                                       | 200pcs/Pk |
| MCE47-045S  | Aperture : 0.22um Sterile microbial detection filter membrane;                                                      | 200pcs/Pk |
| MCE47-022SS | Diameter : 47mm; Aperture : 0.45um Sterile microbial detection filter membrane For Machined distribution; Diameter: | 200pcs/Pk |
| MCE47-045SS | 47mm; Aperture: 0.22um Sterile microbial detection filter membrane For Machined distribution; Diameter:             | 200pcs/Pk |

### DARSUN Membrane Dispenser Curve

General microbiological analysis; Beer; Bottled Water; Pharmaceutical Products Analysis; Environmental Analysis;

Bioburden Testing; Water Monitoring Extensive use of sterile filters is often required. The DARSUN™ automatic film extractor is

designed for this purpose, making the process of mass film extraction easy and fast. The film

extractor is lightweight, easy to install, and contactless, avoiding hand contact with the filter

and reducing the risk of contamination.

- Used for automatic membrane extraction of microbial detection membrane
- Automatic infrared induction film collection
- Filter membrane pre-sterilization, no contact to take the membrane, to avoid secondary pollution installation process is simple and fast
- Indicates the number of membranes used and the number of membranes remaining
- High speed film removal < 1 second
- Lightweight appearance, easy to move and use
- Can be used for AC power supply 110/220V or 18650 lithium battery
- The detection efficiency is effectively improved



| Order NO. | Description              | Package |
|-----------|--------------------------|---------|
| MCE47-01S | Membrane Dispenser Curve | 1Set/Cs |

## DARSUN High borosilicate solvent filter

High borosilicate glass material

42mm sand chips or 47mm and 50mm filters are available

Resistant to most aqueous and organic solvents

Can be autoclaved

| Order NO.  | Description                               | Packag |
|------------|-------------------------------------------|--------|
| HG09-250   | High borosilicate solvent filter; 250ml   | 1      |
| HG09-500   | High borosilicate solvent filter; 500ml   | Set/Cs |
| HG09-1000  | High borosilicate solvent filter; 1000ml  | 1      |
| HG09-2000  | High borosilicate solvent filter; 2000ml  | Set/Cs |
| HG09-3000  | High borosilicate solvent filter; 3000ml  | 1      |
| HG09-5000  | High borosilicate solvent filter; 5000ml  | Set/Cs |
| HG09-10000 | High borosilicate solvent filter; 10000ml | 1      |



## DARSUN Stainless steel multiplex filter

The filter bracket is equipped with an independent control valve for each filter, allowing for flexible and convenient disinfection with high efficiency.

It has the capability to simultaneously detect three or six samples with high sensitivity, low false positive rate, and simple operation. Constructed from 316L sanitary grade stainless steel material,

it is resistant to acid and alkali corrosion and can be easily disinfected at high temperatures, ensuring stable and reliable analysis results.

The aluminum clip's tight design facilitates easy combination of the filter cup with the middle filter head, ensuring a strict seal without any leakage.

Widely utilized in chemical analysis, biochemical pharmaceuticals, health inspection, environmental testing, water quality analysis, food and beverage industries as well as scientific research.

| Order NO. | Description      | Stainless steel multiplex filter; | Packag  |
|-----------|------------------|-----------------------------------|---------|
| SSF3-300  | 3 Channels*300ml | Stainless steel multiplex filter; | 1       |
| SSF3-500  | 3 Channels*500ml | Stainless steel multiplex filter; | Set/Cs  |
| SSF6-300  | 6 Channels*300ml | Stainless steel multiplex filter; | 1Set/Cs |
| SSF6-500  | 6 Channels*500ml |                                   | 1Set/Cs |



# Centrifugal And Cryogenic Tube



It is mainly used in: the precipitate after chemical reaction; natural biology is bigger than molecule, inorganic matter, organic matter; in the field of biochemistry, it is used to collect cell, organelle, bio-molecular matter and so on

## Centrifugal And Cryogenic Tube



## DARSUN™ Low Retention microcentrifuge tube

- ☐ Microcentrifuge Tubes offers sample security while maintaining an easy to open cap. The larger round cap design assists in opening and the smooth surface reduces the possibility of ripped or torn gloves.
- ☐ High clarity and clearly visible graduation marks allow for quick sample check.
- ☐ Uniform tube concentricity aids in the robustness needed during centrifugation.
- ☐ Tubes are available in amber to protect your light sensitive samples
- ☐ Graduation marks on the microcentrifuge tube allow for effective sample reference
- ☐ Frosted top and side writing pads
- ☐ Uniform wall thickness improve durability
- ☐ -80°C cold storage capable
- ☐ Available in bulk bags
- ☐ For stringent sterility requirements individually wrapped sterile tubes are available
- ☐ Color options: Natural, Amber, Red, Blue, Green, Yellow and Violet and a mixed color packaging
- ☐ virgin polypropylene, ensure sample integrity during boiling, freezing and centrifugation
- ☐ Sterile product is certified free of RNase, DNase, DNA, ATP, bioburden and endotoxins
- ☐ Nonsterile product is certified free of RNase, DNase, DNA and pyrogens.
- ☐ Max. RCF 20000xG
- ☐ Can be autoclaved
- ☐ Low adsorption microcentrifuge tube reduces liquid wall hanging and material adsorption

| Order number | Description                           | Package                    |
|--------------|---------------------------------------|----------------------------|
| TP05-005     | 0.5ml; Not sterilized; Natural colour | 1000/PK; 10000/Cs          |
| TP05-005-S   | 0.5ml; Sterile; Natural colour        | 100/PK; 1000/Box, 10000/Cs |
| TP05-015     | 1.5ml; Not sterilized; Natural colour | 500/PK; 5000/Cs            |
| TP05-015-S   | 1.5ml; Sterile; Natural colour        | 100/PK; 500/Box, 5000/Cs   |
| TP05-020     | 2ml; Not sterilized; Natural colour   | 500/PK; 5000/Cs            |
| TP05-020-S   | 2ml; Sterile; Natural colour          | 100/PK; 500/Box, 5000/Cs   |
| TP05-050     | 5ml; Not sterilized; Natural colour   | 200/PK; 2000/Cs            |
| TP05-050-S   | 5ml; Sterile; Natural colour          | 100/PK; 200/Box, 2000/Cs   |
| TP05-005B    | 0.5ml; Non-sterilized; Amber          | 1000/PK; 10000/Cs          |
| TP05-005B-S  | 0.5ml; Sterile; Amber                 | 100/PK; 1000/Box, 10000/Cs |
| TP05-015B    | 1.5ml; Non-sterilized; Amber          | 500/PK; 5000/Cs            |
| TP05-015B-S  | 1.5ml; Sterile; Amber                 | 100/PK; 500/Box, 5000/Cs   |
| TP05-020B    | 2ml; Non-sterilized; Amber            | 500/PK; 5000/Cs            |
| TP05-020B-S  | 2ml; Sterile; Amber                   | 100/PK; 500/Box, 5000/Cs   |

Note: DARSUN

details.™ Microcentrifuge tubes are available in a variety of color specifications. Contact DARSUN customer service for



## DARSUN™ Screw Cap Microcentrifuge Tubes

- ☐ Polypropylene material, durable, chemical resistance, natural color
- ☐ Screw cap, leak proof
- ☐ Can be high temperature autoclaved
- ☐ RNase/DNase free, pyrogen free
- ☐ The maximum centrifugal force: 20000Xg

| Order number | Description                            | Package |
|--------------|----------------------------------------|---------|
| STP05-005    | 0.5 ml; Not sterilized; Natural colour | 500/PK; |
| STP05-015    | 1.5 ml; Not sterilized; Natural colour | 5000/Cs |
| STP05-020    | 2ml; Not sterilized; Natural colour    | 500/PK; |
|              |                                        | 5000/Cs |
|              |                                        | 500/PK; |
|              |                                        | 5000/Cs |



## DARSUN™ 15mL and 50mL Conical Sterile Polypropylene Centrifuge Tubes

- 15mL & 50mL Conical Sterile Polypropylene Centrifuge Tubes are
- premium, high-quality conical tubes that are environmentally friendly,
- offer the highest cleanliness with a recyclable plastic crack;
- increased traceability with the large writing area.

Labware Products are made from high-purity resins and molded using our state-of-the-art processes.

- Nonpyrogenic: Endotoxin tested (0.6 EU/mL)
- Non-Cytotoxic
- Biologically inert: USP biological reactivity class VI
- High level of sterility: SAL 10<sup>-6</sup>
- RNase / DNase free
- Leak proof
- Made from virgin resins and molded using state-of-the-art processes;
- 50ml provides Skirted-bottom self-supporting type.
- 50ml maximum centrifugal force: 17000xg.
- 15ml maximum centrifugal force: 13500xg.
- Available in bag and rack styles
- Available in polystyrene for blood research applications

| Order number | Description                  | Package         |
|--------------|------------------------------|-----------------|
| ATS05-15     | Sterile; 15ml; Bulk          | 25/PK; 500/ Cs  |
| ATS05-15L    | Sterile; 15ml; Rack          | 50/Rack; 500/Cs |
| ATS05-50     | Sterile; 50ml; Bulk          | 25/PK; 500/ Cs  |
| ATS05-50L    | Sterile; 50ml; Rack          | 25/Rack; 500/Cs |
| ATS05-50A    | Sterile; Skirted, 50ml; Rack | 25/PK; 500/ Cs  |



## DARSUN™ Amber Conical Centrifuge Tubes

| Order number | Description                | Package         |
|--------------|----------------------------|-----------------|
| ATSL05B-15   | Amber, Sterile; 15ml; Bulk | 25/PK; 500/ Cs  |
| ATSL05B-15L  | Amber, Sterile; 15ml; Rack | 50/Rack; 500/Cs |
| ATSL05B-50   | Amber, Sterile; 50ml; Bulk | 25/PK; 500/ Cs  |
| ATSL05B-50L  | Amber, Sterile; 50ml; Rack | 25/Rack; 500/Cs |



## DARSUN™ Low Retention Conical Centrifuge Tubes

| Order number  | Description         | Package         |
|---------------|---------------------|-----------------|
| ATSL05-LR-15  | Sterile; 15ml; Bulk | 25/PK; 500/ Cs  |
| ATSL05-LR-15L | Sterile; 15ml; Rack | 50/Rack; 500/Cs |
| ATSL05-LR-50  | Sterile; 50ml; Bulk | 25/PK; 500/ Cs  |
| ATSL05-LR-50L | Sterile; 50ml; Rack | 25/Rack; 500/Cs |



## DARSUN™ Round bottom centrifugal tube -high transparency

- Made of polypropylene material
- Reusable, high temperature autoclave sterilization
- With scale; Writing area

Available in a variety of sizes from 2ml to 100ml, with two choices of button and screw

| Order number | Description                     | Package |
|--------------|---------------------------------|---------|
| ATS06-15R    | 15ml; Round bottom; ungraduated | 24/PK , |
| ATS06-15RS   | 15ml; Round bottom; Tape scale  | 960/Cs  |
|              |                                 | 24/PK , |
|              |                                 | 960/Cs  |



## DARSUN™ Round bottom centrifuge tube

- Made of polypropylene material
- Reusable (high temperature autoclave)
- With scale; Writing Area
- Provide a variety of specifications from 2ml to 100ml, and provide two options: press cap and screw cap



| OrderNO.   | Description                                              | Package        |
|------------|----------------------------------------------------------|----------------|
| CTL05-2P   | 2ml Round bottom centrifuge tube; Presscap; 10x42mm      | 500/PK;        |
| CTL05-5P   | 5ml Round bottom centrifuge tube; Presscap; 13x54mm      | 5000/CS        |
| CTL05-7P   | 7ml Round bottom centrifuge tube; Press cap; 14x81mm     | 300/PK;        |
| CTL05-10P  | 10ml Round bottom centrifuge tube; Presscap; 14.5x82mm   | 3000/CS        |
| CTL05-10S  | 10ml Round bottom centrifuge tube; screwcap; 16x102mm    | 200/PK;        |
| CTL05-15P  | 15ml Round bottom centrifuge tube; Presscap; 18x98mm     | 2000/CS        |
| CTL05-15S  | 15ml Round bottom centrifuge tube; screwcap; 16x115mm    | 200/PK;        |
| CTL05-30S  | 30ml Round bottom centrifuge tube; screw cap; 27.5x107mm | 2000/CS        |
| CTL05-50P  | 50ml Round bottom centrifuge tube; Presscap; 28x105mm    | 100/PK;        |
| CTL05-50S  | 50ml Round bottom centrifuge tube; screwcap; 28.5x115mm  | 1000/CS        |
| CTL05-100P | 100ml Round bottom centrifuge tube; Presscap; 38x106mm   | 100/PK;        |
| CTL05-100S | 100ml Round bottom centrifuge tube; screwcap; 38x116mm   | 1000/CS        |
|            |                                                          | 100/PK;        |
|            |                                                          | 1000/CS 50/PK; |
|            |                                                          | 500/CS 50/PK;  |
|            |                                                          | 500/CS 50/PK;  |
|            |                                                          | 500/CS 30/PK;  |
|            |                                                          | 300/CS 30/PK;  |
|            |                                                          | 300/CS         |

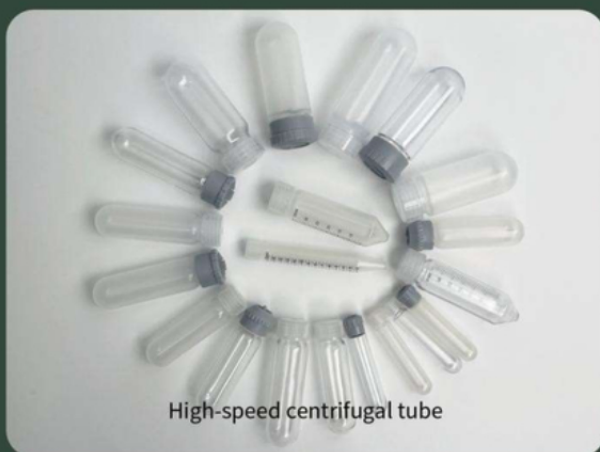


## high speed centrifugal apparatus

High speed centrifuges are available in various capacities from 10ml to 2000ml. At the same time, it provides a variety of bottom shapes such as round bottom, flat bottom and Conical bottom. More abundant provides a variety of sealing structures.

Bioland HIGH-SPEED centrifugals can be adapted to most brands on the market. Such as: Thermofisher, Beckman, Hitachi, Sigma, Eppendorf and other brands. All you need to do is to find the right centrifuge for you from Bioland's centrifuge parameter sheet.

According to the type, it is divided into: centrifugal tube and centrifugal bottle \_\_\_\_\_



High-speed centrifugal tube



High-speed centrifugal bottle

From the bottom type is divided into: Flat bottom, Conical bottom, Round bottom \_\_\_\_\_



Flat bottom



Conical bottom



Round bottom

From the material is divided into: Polypropylene and Polycarbonate \_\_\_\_\_



Polypropylene



Polycarbonate

Note: High speed centrifuge bottle is not permanent use. Different mechanical strength and centrifugal time, the fatigue degree of the product is different, please arrange the number of repeated use according to the experimental plan



## Darsunspeed centrifugal tube

Darsunhighspeed centrifuge tube/bottles fit the vast majority of centrifuges on the market. It has good sealing property and can effectively prevent sample leakage. You can choose the product that suits you according to the size table



## DARSUN™ High speed polypropylene centrifugal tube

- High-SpeedPPCentrifugeTubesarechemicallycompatiblewithawidervarietyoflabreagentsandrepeatedly autoclavable for extended performance.
- Itcan be used in refrigerated centrifuges or non-refrigerated centrifuges with centrifugal force up to 5000xg
- Suitable for ThermoFisher, Sigma, Beckman, Eppendorf, Tomy and other mainstream centrifugals
- Comes with polypropylene linerless closures—easy to clean and provides leak proof protection under normal conditions up to 10,000xg
- Tubes must be filled to at least 80% capacity for proper performance
- Great chemical resistance
- Can be autoclaved repeatedly
- Autoclavable
- Leak proof

Note: During high temperature autoclave sterilization, please completely remove the cover and place it on the top of the container, remember not to rotate the screw seal



| Order number | Description                           | Package |
|--------------|---------------------------------------|---------|
| CTH05-10     | 10ml, Length * Diameter: 81.4x16.0mm  | 10/PK;  |
| CTH05-30     | 30ml Length * Diameter: 94.3x25.5mm   | 100/CS  |
| CTH05-50     | 50ml, Length * Diameter: 106.7x28.8mm | 10/PK;  |
| CTH05-100    | 100ml Length * Diameter: 105.7x38.2mm | 100/CS  |

## DARSUN™ High speed centrifugal tube

Suitable for most centrifuges on the market.

It has good sealing property and can effectively prevent sample leakage.

Provides flat bottom, conical bottom, round bottom three types of bottom. Various seal cap designs are available to reduce leakage of centrifugal bottles.

The combination seal cover is easier to open.

Centrifugal tubes made of either polypropylene or polycarbonate can be autoclaved at high temperature.

The centrifugal tube made of polypropylene has excellent chemical resistance, and the centrifugal tube made of polycarbonate has excellent light transmission and low temperature resistance.

You can choose the product that suits you according to the size table.

### High speed centrifuge tube with gasket seal cap

| Order number | Maximum | Material | Size(mm)  | Centrifugal | Packing Quantity   |
|--------------|---------|----------|-----------|-------------|--------------------|
| CTH05-S10    | 10ml    | P        | 16x81.2   |             | 10Pcs/Pk 100Pcs/CS |
| CTH05-S30    | 30ml    | P        | 25x94     | 50000xg     | 10Pcs/Pk 100Pcs/CS |
| CTH05-S50    | 50ml    | P        | 28.5x105  | 50000xg     | 10Pcs/Pk 100Pcs/CS |
| CTH05-S82    | 82ml    | P        | 38x105    | 50000xg     | 10Pcs/Pk 100Pcs/CS |
| CTH05-S100   | 100ml   | P        | 16x82.8   | 50000xg     | 10Pcs/Pk 100Pcs/CS |
| CTH07-S10    | 10ml    | P        | 25.3x94.5 | 50000xg     | 10Pcs/Pk 100Pcs/CS |
| CTH07-S30    | 30ml    | P        | 28.5x105  | 50000xg     | 10Pcs/Pk 100Pcs/CS |
| CTH07-S50    | 50ml    | P        | 38x105    | 50000xg     | 10Pcs/Pk 100Pcs/CS |
| CTH07-S82    | 82ml    | P        |           | 50000xg     |                    |





Conical bottom High speed centrifuge tube with standard cap

| Order number | Maximum | Material | Size(mm) | Centrifugal | Packing Quantity   |
|--------------|---------|----------|----------|-------------|--------------------|
| CTH05-       |         | P        | 16x81.2  |             | 10Pcs/Pk 100Pcs/Cs |
| C15          | 10ml    | P        | 25x94    | 50000xg     | 10Pcs/Pk 100Pcs/Cs |
| CTH05-       | 35ml    | P        | 28.5x105 | 50000xg     | 10Pcs/Pk 100Pcs/Cs |
|              | 50ml    | P        |          | 50000xg     |                    |
|              |         | P        |          |             |                    |
|              |         | P        |          |             |                    |



# Centrifuge bottle

## Bioland Standard high-speed centrifuge bottle



Polypropylene



Polycarbonate

| Order number | Maximum capacity(ml) | Material | Size(mm) | Centrifugal force(Xg) | Packing Quantity |
|--------------|----------------------|----------|----------|-----------------------|------------------|
| CB05-250     | 250ml                | PP       | 61.8x123 | 27000xg               | 6/pk; 24/cs      |
| CB05-500S    | 500ml                | PP       | 69.5x169 | 13500xg               | 6/pk; 12/cs      |
| CB05-500     | 500ml                | PP       | 73.5x168 | 13500xg               | 6/pk; 12/cs      |
| CB05-1000S   | 1000ml               | PP       | 97.5x170 | 7000xg                | 2/pk; 6/cs       |
| CB05-1000    | 1000ml               | PP       | 97.5x171 | 7000xg                | 2/pk; 6/cs       |
| CB07-250     | 250ml                | PC       | 61.8x124 | 27000xg               | 6/pk; 24/cs      |
| CB07-500S    | 500ml                | PC       | 69.5x170 | 13500xg               | 6/pk; 12/cs      |
| CB07-500     | 500ml                | PC       | 73.5x169 | 13500xg               | 6/pk; 12/cs      |

## Darsun High Speed centrifuge bottle with gasket sealing cap



Polypropylene



450ml



Polycarbonate

| Order number | Maximum capacity(ml) | Material | Size(mm) | Centrifugal force(Xg) | Packing Quantity |
|--------------|----------------------|----------|----------|-----------------------|------------------|
| CB05-S250    | 250ml                | PP       | 61.8x127 | 27000xg               | 6/pk; 24/cs      |
| CB05-S450    | 450ml                | PP       | 68x158   | 13500xg               | 6/pk; 12/cs      |
| CB05-S500S   | 500ml                | PP       | 69.5x173 | 13500xg               | 6/pk; 12/cs      |
| CB05-S500    | 500ml                | PP       | 73.5x173 | 13500xg               | 6/pk; 12/cs      |
| CB07-S450    | 450ml                | PC       | 68x158   | 13500xg               | 6/pk; 12/cs      |
| CB07-S500S   | 500ml                | PC       | 69.5x173 | 13500xg               | 6/pk; 12/cs      |
| CB07-S500    | 500ml                | PC       | 73.5x173 | 13500xg               | 6/pk; 12/cs      |



DARSUN<sup>®</sup> High speed centrifugal bottle with combined seal lid can be adapted to mainstream centrifuges such as Thermo and Beckman.

| Model Number   | Maximum capacity(ml) | Material | Size(mm) | Centrifugal force(Xg) | Packing Quantity |
|----------------|----------------------|----------|----------|-----------------------|------------------|
| 250B05-C250    | 250                  | P        | 61.8x13  | 30000                 | 6Pcs/Pk;         |
| 250B05-C250A   | 250                  | P        | 61x141   | xg                    | 24Pcs/Cs         |
| 500B05-C500S   | 500                  | P        | 69x179   | 30000                 | 6Pcs/Pk;         |
| 500B05-C500    | 500                  | P        | 73.5x17  | xg                    | 24Pcs/Cs         |
| 500B05-C500A   | 500                  | P        | 7        | 24500                 | 6Pcs/Pk;         |
| 1000B05-C1000  | 1000                 | P        | 69x171   | xg                    | 12Pcs/Cs         |
| 1000B05-C1000A | 1000                 | P        | 97x202   | 24500                 | 6Pcs/Pk;         |
| 1000B05-C1000B | 1000                 | P        | 97x202   | xg                    | 12Pcs/Cs         |
| 1000B05-C1000C | 1000                 | P        | 97x194   | 24500                 | 2Pcs/Pk; 6Pcs/Cs |
| 1000B05-C1000P | 1000                 | P        | 97x194   | xg                    | 2Pcs/Pk; 6Pcs/Cs |
| 500B07-C500A   | 500                  | P        | 95x220   | 20500                 | 2Pcs/Pk; 6Pcs/Cs |
| 500B07-C500B   | 500                  | P        | 69x171   | xg                    | 2Pcs/PK; 6Pcs/Cs |
| 500B07-C500C   | 500                  | P        | 37       | 20500                 | 2Pcs/Pk; 6Pcs/Cs |
| 500B07-C500D   | 500                  | P        |          | xg                    | 2Pcs/Pk; 6Pcs/Cs |
| 500B07-C500E   | 500                  | P        |          | 20500                 | 6Pcs/Pk;         |



|        |      |   |       |       |          |
|--------|------|---|-------|-------|----------|
| CB07-  | 1000 | P | 97x20 | 20500 | 2Pcs/Pk; |
| CI000A | ml   | C | 2     | xg    | 6Pcs/Cs  |
| CB07-  | 1000 | P | 97x19 | 20500 | 2Pcs/Pk; |

DARSUN® Rectangular centrifugal bottle



| Order number | Maximum capacity(ml) | Material | Size(mm)    | Centrifugal force(Xg) | Packing Quantity |
|--------------|----------------------|----------|-------------|-----------------------|------------------|
| CB02-D1500   |                      | HD       | 157x95x168  | 6800                  | 2Pcs/Pk;         |
| CB05-D1500   | 1500ml               | PE       | 157x95x168  | xg                    | 6Pcs/Cs          |
| CB05-D2000A  | 1500ml               | PP       | 189x97.5x19 | 6800                  | 2Pcs/Pk;         |
| CB05-D2000B  | 2000ml               | PP       | 0           | xg                    | 6Pcs/Cs          |
| CB05-D2400   | 2000ml               | PP       | 175x111x21  | 6800                  | 2Pcs/Pk;         |
|              | 2400ml               |          | 0           | xg                    | 6Pcs/Cs          |
|              |                      |          | 178x113x18  | 6800                  | 2Pcs/Pk;         |
|              |                      |          | 7           | xg                    | 6Pcs/Cs          |
|              |                      |          |             | 6800                  | 2Pcs/Pk;         |
|              |                      |          |             | xg                    | 6Pcs/Cs          |

### ™ Centrifuge Bottles

- Perform biopharmaceutical aseptic fluid transfer or sampling applications with the tri-clover flange of Centrifuge Bottles, molded of translucent polypropylene. Ideal for large-volume cell harvesting, pelleting and protein purification, translucent bottles are autoclavable and have excellent chemical resistance properties.
- For low- to moderate-speed centrifugation of biological and chemical samples
- Leakproof assurance at higher speeds and fill volumes
- For proper performance, bottle must be filled at least 80% of total capacity.
- Suitable for ThermoFisher, Sigma, Beckman, Eppendorf, Tomy and other mainstream centrifugals

Alert: When autoclaving, remove cover completely and place on top of container, remember not to rotate seal thread



| Order number | Description                            | Package     |
|--------------|----------------------------------------|-------------|
| CB05-250     | 250ml, Diameter * Height: 61.8x127.7mm | 6/PK; 60/CS |
| CB05-500S    | 500ml, Diameter * Height: 69.5x170mm   | 6/PK; 30/CS |
| CB05-500     | 500ml, Diameter * Height: 74x170mm     | 6/PK; 30/CS |
| CB05-1000S   | 1000ml, Diameter * Height: 98x169mm    | 6/PK; 12/CS |
| CB05-1000    | 1000ml, Diameter * Height: 97.5x167mm  | 6/PK; 12/CS |

### DARSUN™ PP Conical-Bottom Centrifuge Bottle

Process large batches more easily with centrifuge tubes, which are made from high-purity resins and can resist forces up to 7000 RCF.

- Made of polypropylene material; sterility
- Excellent chemical resistance
- Available in 175ml, 250ml and 500ml sizes
- The 175ml, 250ml and 500ml all have leak-proof sealing caps

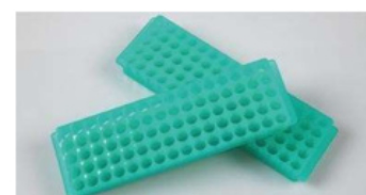


| Order number | Description                                                    | Package     |
|--------------|----------------------------------------------------------------|-------------|
| PBC05-175    | Wide mouth Conical-Bottom; 175ml; Diameter * Height : 61x130mm | 1/PK; 40/CS |
| PBC05-250    | Wide mouth Conical-Bottom; 250ml; Diameter * Height : 61x164mm | 1/PK; 40/CS |
| PBC06-250    | Narrow mouth Conical-Bottom; 250ml; Diameter * Height :        | 1/PK;       |
| PBC06-500    | 60x164mm Narrow mouth Conical-Bottom; 500ml; Diameter *        | 102/CS      |
|              | Height: 95x148mm                                               | 1/PK; 40/CS |

### DARSUN™ Microcentrifuge tube Rack

- Made of polypropylene material
- Excellent chemical resistance; Can be autoclaved at high temperature
- Suitable for 1.5ml and 2.0ml microcentrifuge tubes

| Order number | Description              | Package |
|--------------|--------------------------|---------|
| CF015-60     | 60-holes for 1.5ml and   | 1/PK;   |
| CF015-80     | 2.0ml 80-holes for 1.5ml | 50/CS   |
| CF015-96     | and 2.0ml 96-holes for   | 1/PK;   |
|              | 1.5ml and 2.0ml          | 50/CS   |
|              |                          | 1/PK;   |
|              |                          | 50/CS   |



### DARSUN™ Conical Centrifuge Tube Rack

- ☐ Made of polypropylene material
- ☐ Excellent chemical resistance; Can be autoclaved at high temperature

| Order number | Description               | Package |
|--------------|---------------------------|---------|
| CF05-15      | 15-holes for 5ml and 15ml | 1/PK;   |
| CF15-25      | 25-holes for 15ml         | 50/CS   |
| CF50-25      | 25-holes for 50ml         | 1/PK;   |
|              |                           | 50/CS   |



### DARSUN™ Conical-Bottom Centrifuge Bottle Rack

Made of stainless steel and ABS coating

1/PK;  
50/CS

Suitable for DARSUN™ tip bottomed bottles, Corning tip bottomed bottles, NUNC tip bottomed bottles

| Order number | Description                                | Package    |
|--------------|--------------------------------------------|------------|
| SCF09-250    | Suitable for 225-250ml centrifugal bottles | Individual |
| SCF09-500    | Suitable for 450-500ml centrifugal bottles | package    |



### DARSUN™ Plexiglass Aggreko centrifugal tube Rack

- ☐ Made of transparent plexiglass
- ☐ 0.5ml, 1.5ml, 2.0ml, 5ml, 7ml, 10ml, 15ml, 50ml various specifications

| Order number | Description                                  | Package    |
|--------------|----------------------------------------------|------------|
| PTF-152-24   | 24-holes for 1.5ml and 2.0ml aperture : 11mm | Individual |
| PTF-152-40   | 40-holes for 1.5ml and 2.0ml aperture : 11mm | package    |
| PTF-152-48   | 48-holes for 1.5ml and 2.0ml aperture : 11mm | Individual |
| PTF-050-24   | 24-holes for 5ml aperture : 14mm             | package    |
| PTF-050-40   | 40-holes for 5ml aperture : 14mm             | Individual |
| PTF-710-24   | 24-holes for 7ml and 10ml aperture : 16mm    | package    |
| PTF-710-40   | 40-holes for 7ml and 10ml aperture : 16mm    | Individual |
| PTF-1015-24  | 24-holes for 10ml and 15ml aperture : 16mm   | package    |
| PTF-1015-40  | 40-holes for 10ml and 15ml aperture : 16mm   | Individual |
| PTF-500-8    | 8-holes for 50ml aperture : 29mm             | package    |
| PTF-500-10   | 10-holes for 50ml aperture : 29mm            | Individual |
| PTF-500-20   | 20-holes for 50ml aperture : 29mm            | package    |



Individual  
package  
Individual  
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Individual  
package



### ™ Biobanking and Cell Culture Cryogenic Tubes

Store samples from general cold storage to the vapor phase of liquid nitrogen with Biobanking and Cell Culture Cryogenic Tubes, Non-cytotoxic, non-mutagenic, made of materials that are pyrogen-free and IV compatible tubes for added sample security.

Certified SAL of 10<sup>-6</sup> for the highest sterility assurance available.

Suitable for storage from general cold storage refrigeration (+4°C) down to the vapor phase of liquid nitrogen.

Bulk

- ☐ External rotating frozen storage tube flat bottom self-standing
- ☐ The circular bottom of the inner rotating frozen storage tube has star support feet, which can also be self-supporting
- ☐ The cryogenic tube is made of high quality polypropylene test tube, which is not deformed under high temperature and high pressure disinfection
- ☐ Large bandwidth white writing area, scale in 0.5 mL increments
- ☐ RNase/DNase-free
- ☐ Human DNA-free
- ☐ Non-pyrogenic
- ☐ Non-cytotoxic
- ☐ Sterile

| Order number             | Description                    | Package |
|--------------------------|--------------------------------|---------|
| External Cryogenic Tubes |                                |         |
| AC05-10                  | External screwcap, 1.0ml       | 50/PK;  |
| AC05-20                  | External screwcap, 2.0ml       | 500/CS  |
| AC05-50                  | External screwcap, 5.0ml       | 50/PK;  |
| Internal Cryogenic Tubes |                                | 500/CS  |
| WC05-10                  | Internal, 1.0ml, star standing | 50/PK;  |
| WC05-20                  | Internal, 2.0ml, star standing | 500/CS  |
| WC05-50                  | Internal, 5.0ml, star standing | 50/PK;  |



### DARSUN™ CryoBoxes

Plastic CryoBoxes designed to store cryogenic vials and tubes. Choose from a variety of durable plastic styles with keyed lids and printed location grids, or select economical cardboard CryoBoxes for short-term storage.

Durable, all-plastic CryoBoxes for short- or long-term storage

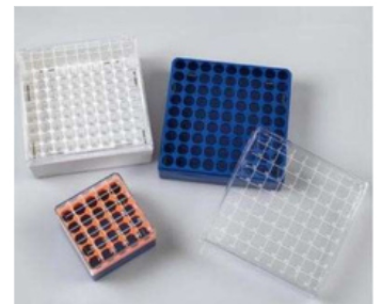
Keyed lids on plastic CryoBoxes prevent misalignment

Plastic boxes are autoclavable for decontamination and usable at temperature range from -196°C to +121°C

Printed grid on plastic lids for easy inventory management

- ☐ Suitable for storing 25, 81, 100 frozen storage tubes
- ☐ Suitable for 1-2ml frozen storage tube
- ☐ Clear polycarbonate material
- ☐ 5X5, 9x9, 10x10

| Order number | Description                 | Package |
|--------------|-----------------------------|---------|
| FB07-25      | 5X5; 25-holes; Grid type    | 1/PK;   |
| FB07-81      | 9X9; 81-holes; Grid type    | 10/CS   |
| FB07-100     | 10X10; 100-holes; Slot type | 1/PK;   |



### DARSUN™ Freezing Container

Freeze cells in tubes from 1 to 5 mL using the Freezing Container. The simple-to-use system is designed to achieve a rate of cooling very close to -1°C/minute, the optimal rate for cell preservation. It holds 12 to 18 tubes, and a screw-top lid secures samples inside in the event of accidental container tipping.

-1°C/minute, the optimal rate for cell preservation. It holds 12 to 18 tubes, and a screw-top lid secures samples inside in the event of accidental container tipping.

- ☐ Provides precise cooling rates for frozen cells (approx. -1°C/min)
- ☐ Appropriate amount of isopropyl alcohol should be injected when using
- ☐ The top of the cover is designed for easy stacking

| Order number | Description                                                  | Package |
|--------------|--------------------------------------------------------------|---------|
| CB07-020     | 18-holes, Suitable for 1.5 ml and 2.0 ml cryopreserved tubes | 1/PK;   |
| CB07-050     | 12-holes, Suitable for 5ml cryopreserved tubes               | 50/CS   |



## DARSUN™ Storage Canes

Store DARSUN cryostorage tubes in Storage Canes, available in standard or stepped format to accommodate a variety of vial sizes and designs.

- Made of stainless steel compared to other brands of aluminum heavier, will not float, so there is no need for any fixed.
- It can hold frozen storage tubes with a diameter of 10mm-12.5mm and a length of 25mm-50mm.
- According to the size of the bucket, three models are designed: Type 3 (15cm long), Type 4 (20cm long), Type 5 (25cm long).
- This is very convenient and flexible, when using, the cell freezing tube or glass ampoule to be frozen on the freezing clip, according to the thickness of the freezing tube or glass ampoule clip adjust the tightness of the freezing clip, and then insert the bucket, and then the bucket can be stored in liquid nitrogen. Because the support strip is heavy, it does not float, so it does not need any fixing. To remove the cells, just push the hole in the corresponding frozen tube or ampoule with your finger to make it exit.

□

| Order number | Description                                      | Package |
|--------------|--------------------------------------------------|---------|
| SS-315       | Length: 15cm; Can support 3 frozen storage tubes | 10/PK;  |
| SS-420       | Length: 20cm; Can support 4 frozen storage tubes | 100/CS  |
| SS-525       | Length: 25cm; Can support 5 frozen storage tubes | 10/PK;  |



100/CS

10/PK;

100/CS

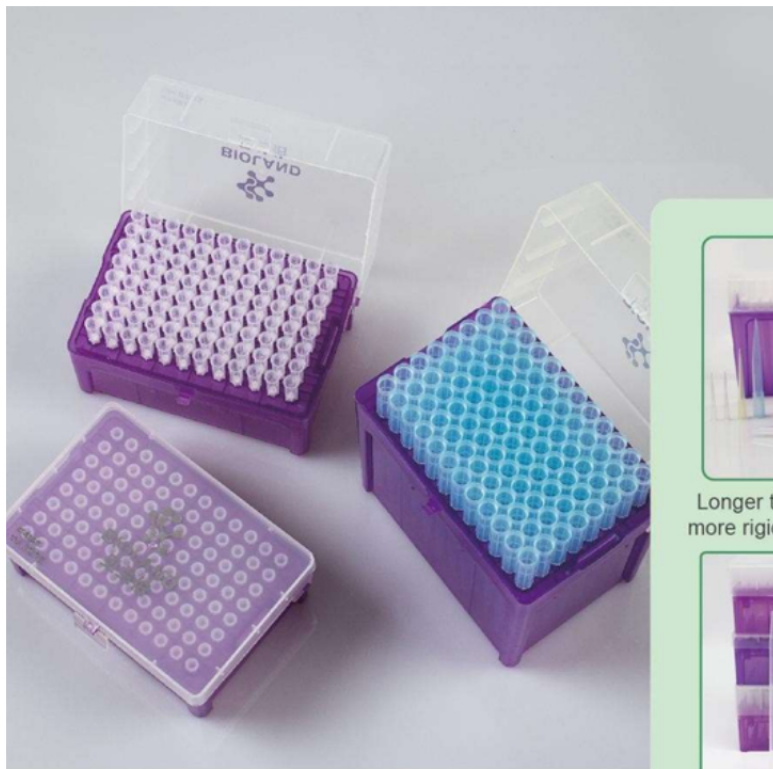
## DARSUN™ Antifreeze gloves

- Can tolerate - 240 °C low temperature
- The surface of gloves is made of the first layer of cowhide, durable and frost proof
- The inner layer is made of sponge velvet, which is warm, anti-freezing, moisture-absorbent, soft and comfortable
- Available in 6 lengths

| Order number | Description  | Package    |
|--------------|--------------|------------|
| AG05-25      | Length: 25cm | 1Pair/PK;  |
| AG05-30      | Length: 30cm | 120Pair/CS |
| AG05-35      | Length: 35cm | 1Pair/PK;  |
| AG05-40      | Length: 40cm | 120Pair/CS |
| AG05-45      | Length: 45cm | 1Pair/PK;  |
| AG05-60      | Length: 60cm | 120Pair/CS |



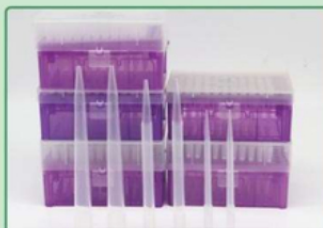
# Pipette Tip series



**DARSUN All Suction  
Can Effectively  
Reduce Wall-hanging  
Liquid**



Longer than standard suckers and more rigid than conventional suckers



Ultra-long tube body, can be easily in the bottom of 5ml cryopreservation tube samples



Compared with the traditional suction head more retractable, with a scale



Darsunintroduced the stacked suction head effectivelysolve the suction head and labor costs





# Light Pipetting Ease up on

To relieve the wrist caused by  
repeated pipetting

## Clear Display Screen

Equipped with a clear pipette range display. Large font, black and white. It greatly improves the visual comfort and effectively reduces the visual fatigue in long-term work.

| Order number | Description                    | Capacity   | Order number | Description | Capacity |
|--------------|--------------------------------|------------|--------------|-------------|----------|
| 4640110BL    | Single track; micronozzle      | 0.2-2ul    | 4660010BL    | Eight paths | 5-50ul   |
| 4640000BL    | Single track; micronozzle      | 1-10ul     | 4660020BL    | Eight paths | 30-300ul |
| 4640010BL    | Single track; Universal nozzle | 1-10ul     | 4660040BL    | Eight paths | 5-50ul   |
| 4640020BL    | Single track; micronozzle      | 2-20ul     | 4660050BL    | Eight paths | 30-300ul |
| 4640030BL    | Single track; Universal nozzle | 2-20ul     |              |             |          |
| 4640090BL    | Single track; Universal nozzle | 5-50ul     |              |             |          |
| 4640040BL    | Single track; Universal nozzle | 10-100ul   |              |             |          |
| 4640050BL    | Single track; Universal nozzle | 20-200ul   |              |             |          |
| 4640060BL    | Single track; Universal nozzle | 100-1000ul |              |             |          |
| 4640100BL    | Single track; Universal nozzle | 0.5-5ml    |              |             |          |
| 4640070BL    | Single track; Universal nozzle | 1-10ml     |              |             |          |

## DARSUN

### ™ Micropipette tip(Non-Filtered)

Micropipette tips are made from 100% virgin polypropylene utilizing state of the art molds and molding methods. Micropipette tips are molded with high clarity resin and many include graduation marks and micropoint design. Packaging options range from bags to aseptic boxes. DARSUN® bagged suction bags are made of special composite materials for excellent puncture resistance. Can be autoclaved at high temperature.

- ☐ RNase/DNase-free
- ☐ Human DNA-free
- ☐ Non-Pyrogen/Endotoxin
- ☐ Non-cytotoxic
- ☐ Sterile
- ☐ Bioburden
- ☐ PCR inhibitors
- ☐ Endotoxin ATP

| Order number       | Description                                                                    | Package           |
|--------------------|--------------------------------------------------------------------------------|-------------------|
| AT-S10             | 10ul standard tips, bulk, Clear                                                | 1000/PK, 10000/CS |
| AT-10              | 10ul Extended tips, bulk, Clear                                                | 1000/PK, 10000/CS |
| AT-200             | 200ul Extended tips, bulk, Clear                                               | 1000/PK, 10000/CS |
| AT-200Y            | 200ul standard tips, bulk, Yellow                                              | 1000/PK, 10000/CS |
| AT-300             | 300ul standard tips, bulk, Clear                                               | 1000/PK, 10000/CS |
| AT-1250            | 1250ul standard tips, bulk, Clear                                              | 1000/PK, 10000/CS |
| AT-1250B           | 1250ul Extended tips, bulk, Blue                                               | 1000/PK, 10000/CS |
| AT-5000            | 5ml standard tips, bulk, Clear                                                 | 100/PK, 1000/CS   |
| AT-N5000           | 5ml standard tips, bulk, Clear, Suitable for Eppendorf pipettes                | 100/PK, 1000/CS   |
| AT-10000           | 10ml standard tips, bulk, Clear                                                | 100/PK, 1000/CS   |
| AT-N10000          | 10ml standard tips, bulk, Clear, Suitable for Eppendorf pipettes               | 100/PK, 1000/CS   |
| DARSUN Tipin Rack; |                                                                                |                   |
| AT-S10-S           | 10ul Standard tips, Tipin Rack; sterile, Clear                                 | 96/Rack ,         |
| AT-10-S            | 10ul Extended tips, Tipin Rack; sterile, Clear                                 | 4800/Cs           |
| AT-200-S           | 200ul Extended tips, Tipin Rack; sterile, Clear                                | 96/Rack ,         |
| AT-200Y-S          | 200ul Standard tips, Tipin Rack; sterile, Yellow                               | 4800/Cs           |
| AT-200X-S          | 200ul Extralong tips, Tip in Rack; sterile, Clear                              | 96/Rack ,         |
| AT-300-S           | 300ul Extended tips, Tipin Rack; sterile, Clear                                | 4800/Cs           |
| AT-1250-S          | 1250ul Extended tips, Tip in Rack; sterile, Clear                              | 96/Rack ,         |
| AT-1250B-S         | 1250ul Extended tips, Tip in Rack; sterile, Blue                               | 4800/Cs           |
| AT-5000-S          | 5ml Standard tips, Tipin Rack; sterile, Clear                                  | 96/Rack ,         |
| AT-N5000-S         | 5ml Standard tips, Tipin Rack; sterile, Clear, Suitable for Eppendorf pipettes | 4800/Cs           |
| AT-10000-S         | 10ml standard tips, bulk, Clear                                                | 96/Rack ,         |
| AT-N10000-S        | 10ml standard tips, bulk, Clear, Suitable for Eppendorf pipettes               | 96/Rack ,         |
|                    |                                                                                | 2880/Cs           |
|                    |                                                                                | 40/Rack , 600/Cs  |
|                    |                                                                                | 24/Rack, 360/Cs   |



## DARSUN™ Refill Micropipette tip

Refill packing is more economical than boxed packing. More convenient than bulk, no need to insert the tip in the rack. Still upset about being a sucker? Still worried about the price of a box of suckers? DARSUN introduced the stacked suction head effectively solves the suction head generation time and the labor cost, a septic stacked design cost may reduce to other brand bag price.



| Order number                | Description                                      | Package                                    |
|-----------------------------|--------------------------------------------------|--------------------------------------------|
| DARSUN Refill tips; sterile |                                                  |                                            |
| AT-10-SS                    | 10ul Extended tips, Refill tip; sterile, Clear   | 480/PK ,                                   |
| AT-200-SS                   | 200ul Extended tips, Refill tip; sterile, Clear  | 4800/CS                                    |
| AT-1250-SS                  | 1250ul Extended tips, Refill tip; sterile, Clear | 480/PK ,<br>4800/CS<br>384/PK ,<br>3840/CS |

## DARSUN™ Filter pipette tip

The filter element is made of ultra-high molecular weight polyethylene and has good hydrophobicity. The filter element effectively forms a protective structure between the pipette and the sample to ensure the safety of sampling; Reduce the harm of the gas residue in the gun body to the operator during the pipetting process and improve the repeatability of the experiment.

Provides low adsorption and ordinary filter element suction head, no coating design, will not contaminate the sample, low adsorption suction head surface is completely hydrophobic treatment. Can be autoclaved at high temperature. Available in sterile racks and ordinary bulks.



| Order number              | Description                                                                  | Package                         |
|---------------------------|------------------------------------------------------------------------------|---------------------------------|
| DARSUN Filter pipette tip |                                                                              |                                 |
| ATF-10-S                  | 10ul tips, Tip in Rack; sterile, Clear                                       | 96/Rack ,                       |
| ATF-20-S                  | 20ul tips, Tip in Rack; sterile, Clear                                       | 4800/Cs                         |
| ATF-S20-S                 | 10ul tips, Tip in Rack; sterile, Clear, Suitable for microconnector pipettes | 96/Rack ,                       |
| ATF-50-S                  | 50ul tips, Tip in Rack; sterile, Clear                                       | 4800/Cs                         |
| ATF-100-S                 | 100ul tips, Tip in Rack; sterile, Clear                                      | 96/Rack ,                       |
| ATF-200-S                 | 200ul tips, Tip in Rack; sterile, Clear                                      | 4800/Cs                         |
| ATF-300-S                 | 300ul tips, Tip in Rack; sterile, Clear                                      | 96/Rack ,                       |
| ATF-1250-S                | 1250ul tips, Tip in Rack; sterile, Clear                                     | 4800/Cs<br>96/Rack ,<br>4800/Cs |



ATF-N5000-S

5ml tips, Tip in Rack; sterile, Clear

40/Rack ,

ATF-N10000-S

5ml tips, Tip in Rack; sterile, Clear, Suitable for Eppendorf pipettes

600/Cs

ATF-10000-S

10ml tips, Tip in Rack; sterile, Clear, Suitable for Eppendorf pipettes

24/Rack ,

10ml tips, Tip in Rack; sterile, Clear

360/Cs

24/Rack ,

360/Cs

## DARSUN™ Barrier Extended Length Pipette Tips

Barrier Extended Length Pipette Tips provides maximum protection against aerosols. The Barrier Extended Length Pipette

Tips greatly reduced the aerosol and liquid pollution, and more safely protected our experimental personnel and pipette.

Sterile tips are DNase, RNase, DNA, ATP, PCR Inhibitor, and Endotoxin Free

### Recommended for:

- ☐ Liquid Handling
- ☐ Molecular Biology
- ☐ PCR
- ☐ Biotechnology

### Self-sealing filter element pipette tips

#### General filter Tips

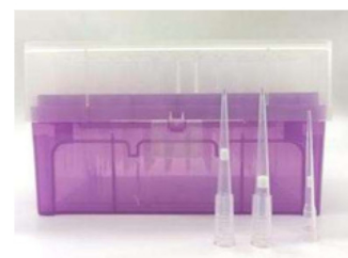
Pipette contamination



No pollution



| Order number       | Description                                       | Package   |
|--------------------|---------------------------------------------------|-----------|
| DARSUN™            | Extended Length Pipette Tips, Sterile             |           |
| Barrier ATF-10-A-S | 10ul, Tip in Rack, Clear, Length:43.5mm           | 96/Rack , |
| ATF-20-A-S         | 20ul, Tip in Rack, Clear, Length:50.5mm           | 4800/Cs   |
| ATF-50-A-S         | 50ul, Tip in Rack, Clear, Length:50.5mm           | 96/Rack , |
| ATF-100-A-S        | 100ul, Tip in Rack, Clear, Length:50.5mm          | 4800/Cs   |
| ATF-200-A-S        | 200ul, Tip in Rack, Clear, Length: 59mm           | 96/Rack , |
| ATF-200X-A-S       | 200ul Extra long, Tip in Rack, Clear, Length:89mm | 4800/Cs   |
| ATF-300-A-S        | 300ul, Tip in Rack, Clear, Length:89mm            | 96/Rack , |
| ATF-1250-A-        | 1250ul, Tip in Rack, Clear, Length:118mm          | 4800/Cs   |



## DARSUN™ Pipette Tip

| Racks     | Number | Description                                       | Package   |
|-----------|--------|---------------------------------------------------|-----------|
| TEB-10    |        | Suitable for DARSUN 10ul Pipette Tip ; 96 holes   | 96/Rack , |
| TEB-200   |        | Suitable for DARSUN 200ul Pipette Tip ; 96 holes  | 2880/Cs   |
| TEB-1250  |        | Suitable for DARSUN 1250ul Pipette Tip ; 96 holes | 96/Rack , |
| TEB-5000  |        | Suitable for DARSUN 5ml Pipette Tip; 40 holes     | 2880/Cs   |
| TEB-N5000 |        | Suitable for DARSUN 5ml Pipette Tip; 24 holes     | 30/C      |
| TEB-10000 |        | Suitable for DARSUN 10ml Pipette Tip; 24 holes    | S         |





### DARSUN column pipette Tips—Special Tips for RAININ brand

Pipette tips are disposable, adaptive pipette tips for accurate and consistent transfer of small amounts of liquid in a variety of research applications.

DARSUN column pipette heads are made of medical-grade polypropylene, high temperature sterilizable and chemically stable.

The connector has a cylindrical design that perfectly matches pipettes designed with a light touch Tip LTS system.

For more effective prevention of cross contamination, pipette tips with filter elements are provided. The filter element is made of sintered high density polyethylene particles to block the mist and protect the pipette from contamination.

In order to meet the needs of different customers, we provide four packaging methods: bag, box, filter cartridge box and stack.

| OrderNO.    | Description                                                       | Package     |
|-------------|-------------------------------------------------------------------|-------------|
| DARSUN      | pipetteTips; Bulk, RNase/DNase-free, HumanDNA-free, Non-pyrogenic |             |
| A-LTS-20 A- | 10ul 、 20ul;                                                      | 1000pcs/Pk; |
| LTS-200 A-  | Bulk 200ul;                                                       | 10Pk/Cs     |
| LTS-300 A-  | Bulk 300ul;                                                       | 1000pcs/Pk; |
| LTS-1250    | Bulk 1000ul;                                                      | 10Pk/Cs     |
|             | Bulk                                                              | 1000pcs/Pk; |

| OrderNO.      | Description                                                                | Package     |
|---------------|----------------------------------------------------------------------------|-------------|
| DARSUN        | pipetteTips; Rack; Sterile, RNase/DNase-free, HumanDNA-free, Non-pyrogenic | 1000pcs/Pk; |
| A-LTS-20-S A- | 10ul 、 20ul; Sterile,                                                      | 96Pcs/Box;  |
| LTS-200-S A-  | Rack 200ul;                                                                | 4880Pcs/Cs  |
| LTS-300-S A-  | Sterile,Rack 300ul;                                                        | 96pcs/Box;  |
| LTS-1250-S    | Sterile,Rack 1000ul;                                                       | 4880Pcs/Cs  |
|               | Sterile, Rack                                                              | 96pcs/Box;  |

| OrderNO.       | Description                                                                   | Package             |
|----------------|-------------------------------------------------------------------------------|---------------------|
| DARSUN         | Filter Pipette Tips; Sterile, RNase/DNase-free, Human DNA-free, Non-pyrogenic | 96pcs/Box;          |
| ATF-LTS-20     | 10ul 、 20ul; Bulk                                                             | 4880Pcs/Cs; 10Pk/Cs |
| ATF-LTS-200    | 200ul; Bulk 300ul;                                                            | 1000pcs/Pk; 10Pk/Cs |
| ATF-LTS-300    | Bulk 1000ul; Bulk                                                             | 1000pcs/Pk; 10Pk/Cs |
| ATF-LTS-1250   | 10ul 、 20ul; Sterile,                                                         | 1000pcs/Pk; 10Pk/Cs |
| ATF-LTS-20-S   | Rack 200ul; Sterile,                                                          | 96pcs/Box;          |
| ATF-LTS-200-S  | Rack 300ul; Sterile,                                                          | 4880Pcs/Cs          |
| ATF-LTS-300-S  | Rack 1000ul; Sterile,                                                         | 96pcs/Box;          |
| ATF-LTS-1250-S | Rack                                                                          | 4880Pcs/Cs          |
|                |                                                                               | 96pcs/Box;          |

| OrderNO.       | Description                                                                | Package      |
|----------------|----------------------------------------------------------------------------|--------------|
| DARSUN         | RefillPipetteTips; Sterile, RNase/DNase-free, HumanDNA-free, Non-pyrogenic | 96pcs/Box;   |
| A-LTS-20-SS A- | 10ul 、 20ul; Sterile,                                                      | 960Pcs/Rack; |
| LTS-200-SS A-  | Refill 200ul; Sterile,                                                     | 10Rack/Cs    |
| LTS-300-SS A-  | Refill 300ul; Sterile,                                                     | 960Pcs/Rack; |
| LTS-1250-SS    | Refill 1000ul; Sterile,                                                    | 10Rack/Cs    |
|                | Refill                                                                     | 768Pcs/Rack; |
|                |                                                                            | 10Rack/Cs    |
|                |                                                                            | 768Pcs/Rack; |

## DARSUN™ Reagent Reservoirs

- ☐ Suitable for 8-channel or 12-channel pipette or 8-channel, 12-channel, 96-hole, 384-hole automatic pipette
- ☐ Low residue, low metal content, high temperature autoclave sterilization

| Order number | Description                                    | Package |
|--------------|------------------------------------------------|---------|
| SLG08-20     | 8channel storage tanks; 20ml/channel           | 5/PK;   |
| SLG08-20-S   | 8channel storage tanks; 20ml/channel; Sterile  | 50/CS   |
| SLG12-14     | 12channel storage tanks; 14ml/channel          | 5/PK;   |
| SLG12-14-S   | 12channel storage tanks; 14ml/channel; Sterile | 50/CS   |
| SLG96-195    | 96hole storage tank; 195ml                     | 5/PK;   |
| SLG96-195-S  | 96hole storage tank; 195ml; Sterile            | 50/CS   |
| SLG384-185   | 384hole storage tank; 185ml                    | 5/PK;   |
| SLG384-185-S | 384hole storage tank; 185ml; Sterile           | 50/CS   |





## DARSUN™ Pipettor tip fitting

| Pipette brand | Gilson | Eppendorf | Thermo | Brand | Rainin | Be common      | Sartorius | DragonLab |
|---------------|--------|-----------|--------|-------|--------|----------------|-----------|-----------|
| AT-10         | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| AT-200        | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| AT-300        | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| AT-1250       | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| AT-5000       | No     | No        | Yes    | Yes   | No     | No             | No        | No        |
| AT-N5000      | No     | Yes       | No     | No    | No     | Yes            | Yes       | Yes       |
| AT-10000      | Yes    | No        | Yes    | No    | Yes    | To be verified | No        | No        |
| AT-N10000     | No     | Yes       | No     | Yes   | No     | To be verified | Yes       | Yes       |
| AT-10-S       | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| AT-200-S      | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| AT-300-S      | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| AT-1250-S     | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| AT-5000-S     | No     | No        | Yes    | Yes   | No     | No             | No        | No        |
| AT-N5000-S    | No     | Yes       | No     | No    | No     | Yes            | Yes       | Yes       |
| AT-10000-S    | Yes    | No        | Yes    | No    | Yes    | To be verified | No        | No        |
| AT-N10000-S   | No     | Yes       | No     | Yes   | No     | To be verified | Yes       | Yes       |
| ATF-10        | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-20        | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-50        | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-100       | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-200       | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-1250      | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-10-S      | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-20-S      | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-50-S      | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-100-S     | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-200-S     | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-1250-S    | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| ATF-5000-S    | No     | No        | Yes    | Yes   | No     | No             | No        | No        |
| ATF-N5000-S   | No     | Yes       | No     | No    | No     | Yes            | Yes       | Yes       |
| ATF-10000-S   | Yes    | No        | Yes    | No    | No     | To be verified | No        | No        |
| ATF-N10000-S  | No     | Yes       | No     | Yes   | Yes    | To be verified | Yes       | Yes       |
| AT-10-SS      | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| AT-200-SS     | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |
| AT-1250-SS    | Yes    | Yes       | Yes    | Yes   | Yes    | Yes            | Yes       | Yes       |

# Elisa Plate Series



The enzyme label plate is a plate used for enzyme-linked immunosorbent assay (Elisa) on the enzyme label instrument. In enzyme-linked immunosorbent assay (Elisa) , antigens, antibodies and other biological molecules are adsorbed to the surface of the plate through various mechanisms, and then react with the sample and the antigen or antibody in different steps, the enzyme marker is used for detection

## DARSUN™ Elisa plate/ Clear Flat-Bottom Immuno 96-Well Plates

Clearplateissuitableforquantitativeandqualitativesolid-phaseimmunoassayandcombinationassay.

Clear polystyrene

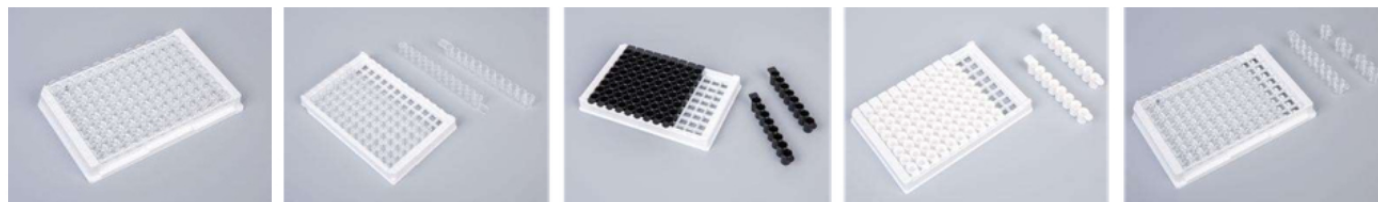
Choiceoffoursurfacesforoptimalbinding

Alphanumerically labeled rows and columns

Theblackplateissuitableforfluorescence immunoassay andcombinationassay.

Thewhiteplateissuitableforself-luminescence andchemiluminescence;

Suitable for most standard equipment



DARSUN™ Elisa plate There are three levels of protein adsorption:

Lowbindingpower:preferentiallybindingmoleculescontainingsignificanthydrophobicregions(lipids,lipoproteins,largeproteins)

Intermediatebindingpower:Bindingbiomoleculeswithhydrophilic/hydrophobicproperties(medium andlargeproteins,immunoglobulins, albumin)

Highbindingpower:Preferenceforbiomoleculeswithhydrophilic/hydrophobicproperties(smalltolarge proteins,immunoglobulins,albumin,LPS, proteins)

## DARSUN™ Immunoplate Plate type(96well plate)

| Order number | Description                                            | Package |
|--------------|--------------------------------------------------------|---------|
| PT06-96I     | Clear; Medium binding force; F-bottom 85.4*127.6*14.4  | 10/PK;  |
| PT06-96S     | Clear; High binding force; F-bottom, 85.4*127.6*14.4   | 100/CS  |
| PW06-96I     | White; Medium binding force; F-bottom, 85.4*127.6*14.4 | 10/PK;  |
| PW06-96S     | White; High binding force; F-bottom, 85.4*127.6*14.4   | 100/CS  |
| PB06-96I     | Black; Medium binding force; F-bottom, 85.4*127.6*14.4 | 10/PK;  |
| PB06-96S     | Black; High binding force; F-bottom, 85.4*127.6*14.4   | 100/CS  |

## DARSUN™ Immunoplate Strip Single Well

| Order number | Description                                            | Package |
|--------------|--------------------------------------------------------|---------|
| PT06-11D     | Clear; Medium binding force; C-bottom, 85.4*127.6*14.4 | 10/PK;  |
| PT06-1SD     | Clear; High binding force; C-bottom, 85.4*127.6*14.4   | 100/CS  |
| PW06-11D     | White; Medium binding force; C-bottom, 85.4*127.6*14.4 | 10/PK;  |
| PW06-1SD     | White; High binding force; C-bottom, 85.4*127.6*14.4   | 100/CS  |

## DARSUN™ Immunoplate Strip 8-Well

| Order number | Description                                            | Package |
|--------------|--------------------------------------------------------|---------|
| PT06-8ID     | Clear; Medium binding force; F-bottom, 85.4*127.6*14.4 | 10/PK;  |
| PT06-8SD     | Clear; High binding force; F-bottom, 85.4*127.6*14.4   | 100/CS  |
| PW06-8ID     | White; Medium binding force; F-bottom, 85.4*127.6*14.4 | 10/PK;  |
| PW06-8SD     | White; High binding force; F-bottom, 85.4*127.6*14.4   | 100/CS  |
| PB06-8ID     | Black; Medium binding force; F-bottom, 85.4*127.6*14.4 | 10/PK;  |
| PB06-8SD     | Black; High binding force; F-bottom, 85.4*127.6*14.4   | 100/CS  |

## DARSUN™ Immunoplate Strip 12-Well

| Order number | Description                                            | Package |
|--------------|--------------------------------------------------------|---------|
| PT06-12ID    | Clear; Medium binding force; F-bottom, 85.4*127.6*14.4 | 10/PK;  |
| PT06-12SD    | Clear; High binding force; F-bottom, 85.4*127.6*14.4   | 100/CS  |
| PW06-12ID    | White; Medium binding force; F-bottom, 85.4*127.6*14.4 | 10/PK;  |
| PW06-12SD    | White; High binding force; F-bottom, 85.4*127.6*14.4   | 100/CS  |
| PB06-12ID    | Black; Medium binding force; F-bottom, 85.4*127.6*14.4 | 10/PK;  |
| PB06-12SD    | Black; High binding force; F-bottom, 85.4*127.6*14.4   | 100/CS  |



DARSUN also dedicated to developing and manufacturing various products for sample storage.

DARSUN Deep Well Plates are suitable for various experiments in the field of biology such as HTS applicable assay, sample storage, cell culture and more. Deep Well Plates which are made of high quality polypropylene display high chemical resistance to most polar organic solvents, acid and weak bases. Deep Well Plates are designed with numbers and alphabets on the top to allow for easy identification.

Applicable to: KingFisher, Tianlong, Huada, Aikang, Kehua, Shengxiang, Da'an, Capp, Zhijiang Biology, ABI, Roche, Beckman, Eppendorf, Bori, Qingdao Lubo, Hangzhou Youning and other models

- ☐ Easy to transport and storage, layered (stacking)
- ☐ Form multi-channel pipette and automatic equipment
- ☐ Numeric labeling
- ☐ Available Storage at -80~121°C
- ☐ Non-pyrogenic
- ☐ DNase/RNase-free
- ☐ Human DNA-free
- ☐ Autoclavable;
- ☐ Little residue, low metal content;
- ☐ Max. RCF: 4000g x g
- ☐ Polypropylene material;
- ☐ Good stability; Excellent chemical resistance, can withstand DMSO, phenols, chloroform, inert to water
- ☐ 96-well 2.2ml can be used for magnetic bead extraction kit, suitable for nucleic acid extraction instrument of multiple manufacturers
- ☐ Can choose self-adhesive sealing plate film, silicone sealing pad, heat sealing film three sealing plate sealing methods



## DARSUN™ Square-well storage plate/deep-well plate

| Order number   | Description                                              | Package     |
|----------------|----------------------------------------------------------|-------------|
| SBS24-10-V     | Square-well; 24-well; 10ml; V-bottom                     | 5/PK; 50/CS |
| SBS24-10-V-S   | Square-well; 24-well; 10ml; Sterile, V-bottom            | 5/PK; 50/CS |
| SBS48-46-U     | Square-well; 48-well; 4.6ml; U-bottom                    | 5/PK; 50/CS |
| SBS48-46-U-S   | Square-well; 48-well; 4.6ml; U-bottom, Sterile           | 5/PK; 50/CS |
| SBS96-G22-U    | I-shaped, Square-well; 96-well; 2.2ml; U-bottom          | 5/PK; 50/CS |
| SBS96-G22-U-S  | I-shaped, Square-well; 96-well; 2.2ml; U-bottom, Sterile | 5/PK; 50/CS |
| SBS96-22-U     | Square-well; 96-well; 2.2ml; U-bottom                    | 5/PK; 50/CS |
| SBS96-22-U-S   | Square-well; 96-well; 2.2ml; U-bottom, Sterile           | 5/PK; 50/CS |
| SBS96-22-V     | Square-well; 96-well; 2.2ml; V-bottom                    | 5/PK; 50/CS |
| SBS96-22-V-S   | Square-well; 96-well; 2.2ml; V-bottom, Sterile           | 5/PK; 50/CS |
| SBS96-22-C     | Square-well; 96-well; 2.2ml; Conical bottom              | 5/PK; 50/CS |
| SBS96-22-C-S   | Square-well; 96-well; 2.2ml; Conical bottom, Sterile     | 5/PK; 50/CS |
| SBS96-16-U     | Square-well; 96-well; 1.6ml; U-bottom                    | 5/PK; 50/CS |
| SBS96-16-U-S   | Square-well; 96-well; 1.6ml; U-bottom, Sterile           | 5/PK; 50/CS |
| SBS96-16-V     | Square-well; 96-well; 1.6ml; V-bottom                    | 5/PK; 50/CS |
| SBS96-16-V-S   | Square-well; 96-well; 1.6ml; V-bottom, Sterile           | 5/PK; 50/CS |
| SBS96-13-U     | Square-well; 96-well; 1.0ml/1.3ml; U-bottom              | 10/PK;      |
| SBS96-13-U-S   | Square-well; 96-well; 1.0ml/1.3ml; U-bottom, Sterile     | 100/CS      |
| SBS96-500-C    | Square-well; 96-well; 500ul; Conical bottom              | 10/PK;      |
| SBS96-500-C-S  | Square-well; 96-well; 500ul; Conical bottom, Sterile     | 100/CS      |
| SBS384-240-V   | Square-well; 384-well; 240ul; Conical bottom             | 10/PK;      |
| SBS384-240-V-S | Square-well; 384-well; 240ul; Conical bottom, Sterile    | 100/CS      |



## DARSUN™ Round-well storage plate/deep-well

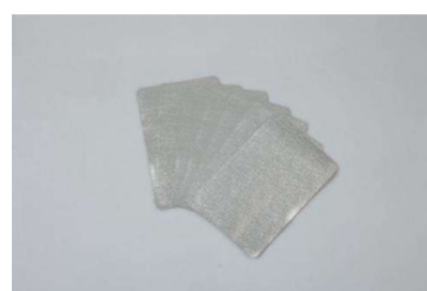
| plate         | Description                                   | Package     |
|---------------|-----------------------------------------------|-------------|
| Order number  | Round-well; 48-well; 3.5ml; U-bottom          | 5/PK; 50/CS |
| SBC48-35-U    | Round-well; 48-well; 3.5ml; U-bottom, Sterile | 5/PK; 50/CS |
| SBC48-35-U-S  | Round-well; 96-well; 2.0ml; U-bottom          | 5/PK; 50/CS |
| SBC96-20-U    | Round-well; 96-well; 2.0ml; U-bottom, Sterile | 5/PK; 50/CS |
| SBC96-20-U-S  | Round-well; 96-well; 1.3ml; U-bottom          | 5/PK; 50/CS |
| SBC96-12-U    | Round-well; 96-well; 1.3ml; U-bottom, Sterile | 5/PK; 50/CS |
| SBC96-12-U-S  | Round-well; 96-well; 1.0ml; U-bottom          | 5/PK; 50/CS |
| SBC96-10-U    | Round-well; 96-well; 1.0ml; U-bottom, Sterile | 5/PK; 50/CS |
| SBC96-10-U-S  | Round-well; 96-well; 1.0ml; V-bottom          | 5/PK; 50/CS |
| SBC96-10-V    | Round-well; 96-well; 1.0ml; V-bottom, Sterile | 5/PK; 50/CS |
| SBC96-10-V-S  | Round-well; 96-well; 400ul; U-bottom          | 10/PK;      |
| SBC96-400-U   | Round-well; 96-well; 400ul; U-bottom, Sterile | 100/CS      |
| SBC96-400-U-S | Round-well; 96-well; 360ul; V-bottom          | 10/PK;      |
| SBC96-360-V   | Round-well; 96-well; 360ul; V-bottom, Sterile | 100/CS      |



## Seals, Tapes, and Foils

DARSUN™ There are three kinds of sealing plate products: silicone sealing pad, self-adhesive sealing plate film, heat sealing plate film

- Silicone sealing pad can be pierced



## DARSUN™ 96-Well Cap Mats

| Order number | Description                                       | Package |
|--------------|---------------------------------------------------|---------|
| SBS01-24     | 24-well; Square well; 17.2x17.2mm, Autoclavable   | 10/PK;  |
| SBS01-48     | 48-well; rectangle-well; 8.4x17.2mm, Autoclavable | 50/Box  |
| SBS01-96     | 96-well; Square well; 8.4x8.4mm, Autoclavable     | 10/PK;  |
| SBC01-96X    | 96-well; Round well; Φ8.3mm, Autoclavable         | 50/Box  |
| SBC01-96     | 96-well; Round well; Φ7.3mm, Autoclavable         | 10/PK;  |
| SBC01-96PCR  | PCR 96-well; Round well; Φ5.7mm, Autoclavable     | 50/Box  |
| SBS01-384    | 96-well; Square well; 3.4x3.4mm, Autoclavable     | 10/PK;  |



## DARSUN™

## Self-adhesive aluminum film

|        |              |        |
|--------|--------------|--------|
| DARSUN | 130mm*78.3mm | 50/Box |
|--------|--------------|--------|

## Heat sealing film

|           |                                                             |               |
|-----------|-------------------------------------------------------------|---------------|
| SF125-844 | Length * Width:125x82mm; Smooth; piercable                  | 10/PK; 100/Bo |
| SF125-845 | Length * Width:125x82mm; Smooth; Thicken; impenetrable      | 50/Box x      |
|           | Length*Width:125x82mm; Pittedsurface; Thicken; piercable    | 100/Bo        |
|           | Length*Width:125x82mm; Pittedsurface; Thicken; impenetrable | x             |

x

100/Bo

x

**™ 8 Strip Tip Comb**

- Used with DARSUN™ nucleic acid extraction square well deep well plate
- DARSUN™ magnetic sleeve are available in 8, 12, 24 and 96 sizes
- Suitable for 2.0ml/2.2ml deep well plate
- Suitable for most nucleic acid extractors



| Order number | Description                                               | Package               |
|--------------|-----------------------------------------------------------|-----------------------|
| SBS08-96     | 8 Strip Tip Comb; Standard type                           | 2 PCS/bag; 100 PCS/CS |
| SBS08-96S    | 8 Strip Tip Comb; Standard type; Sterile                  | 2 PCS/bag; 100 PCS/CS |
| SBS08S-96    | 8 Strip Tip Comb; No handle model                         | 2 PCS/bag; 100 PCS/CS |
| SBS08S-96S   | 8 Strip Tip Comb; Without handle; Sterile                 | 2 PCS/bag; 100 PCS/CS |
| SBS08J-96    | 8 Strip Tip Comb; Wide back style                         | 2 PCS/bag; 100 PCS/CS |
| SBS08J-96S   | 8 Strip Tip Comb; Wide back style; Sterile                | 2 PCS/bag; 100 PCS/CS |
| SBS08C-96    | 8 Strip Tip Comb; With buckle; Cone bottom                | 2 PCS/bag; 100 PCS/CS |
| SBS08C-96S   | 8 Strip Tip Comb; With buckle; Cone bottom; Sterile       | 2 PCS/bag; 100 PCS/CS |
| SBS08N-96    | 8 Strip Tip Comb; With buckle; Round bottom               | 2 PCS/bag; 100 PCS/CS |
| SBS08N-96S   | 8 Strip Tip Comb; With buckle; Round bottom; Sterile      | 2 PCS/bag; 100 PCS/CS |
| SBS12-96     | 12 Strip Tip Comb                                         | 2 PCS/bag; 100 PCS/CS |
| SBS12-96S    | 12 Strip Tip Comb; Sterile                                | 2 PCS/bag; 100 PCS/CS |
| SBS24S-96    | 24 Strip Tip Comb; Thin sleeve;                           | 2 PCS/bag; 30 PCS/CS  |
| SBS24S-96S   | 24 Strip Tip Comb; Thin sleeve; Sterile                   | 2 PCS/bag; 30 PCS/CS  |
| SBS24-96     | 24 Strip Tip Comb; Large capacity standard model          | 1 PCS/bag; 30 PCS/CS  |
| SBS24-96S    | 24 Strip Tip Comb; Large capacity standard model; Sterile | 1 PCS/bag; 30 PCS/CS  |
| SBS24L-96    | 24 Strip Tip Comb; Large capacity standard model          | 1 PCS/bag; 30 PCS/CS  |
| SBS24L-96S   | 24 Strip Tip Comb; Large capacity standard model; Sterile | 1 PCS/bag; 30 PCS/CS  |
| SBS96-96     | Magnetic sleeve 96 tip column                             | 2 PCS/bag; 30 PCS/CS  |
| SBS96-96S    | Magnetic sleeve 96 tip column; Sterile                    | 2 PCS/bag; 30 PCS/CS  |





# Sample Tubes Freezing Series

## Darsun Sample Tubes Freezing Series

## DARSUN MicroTubes™

Screw Cap Micro Tubes robust design and material selection are well suited for work with biologics and offer rich features, including ultra-clear externally threaded tubes and UV protective amber tubes.

Packaged in bulk bags and non-sterile clean claims are;

RNase/DNase, DNA, pyrogen and endotoxin free.

Screw Cap micro tube volume range of 0.5, 1.5 and 2.0 ml and are ideal for sample preparation, storage and transportation

Conical bottom or self-standing offered with knurl in ultra-clear natural or UV protective amber color

Tether caps and standard non tether caps are available in a rainbow of color options

- ☐ Autoclavable and can be frozen and thawed repeatedly
- ☐ RNase/DNase-free
- ☐ Human DNA-free
- ☐ Non-Pyrogen/Endotoxin
- ☐ Non-cytotoxic
- ☐ Sterile packaging is also available in small package sizes of 100 PCS/pallet
- ☐ Cap colors available: red, orange, yellow, green, blue, pink, purple, white, brown, natural colors

## DARSUN™ Natural Screw Cap Micro Tubes

| Order number | Description                | Package |
|--------------|----------------------------|---------|
| ST05-005     | 0.5ml; Skirted;            | 500/PK; |
| ST05-005-S   | 0.5ml; Skirted; Sterile    | 5000/CS |
| ST05-015     | 1.5ml; Skirted;            | 500/PK; |
| ST05-015-S   | 1.5ml; Skirted; Sterile    | 5000/CS |
| ST05-015-N   | 1.5ml; No-Skirted;         | 500/PK; |
| ST05-015N-S  | 1.5ml; No-Skirted; Sterile | 5000/CS |
| ST05-020     | 2.0ml; Skirted;            | 500/PK; |
| ST05-020-S   | 2.0ml; Skirted; Sterile    | 5000/CS |



## DARSUN™ Amber Screw Cap Micro Tubes

| Order number | Description                                        | Package |
|--------------|----------------------------------------------------|---------|
| STA05-005    | 0.5ml; Not Clear Amber, Skirted;                   | 500/PK; |
| STA05-005-S  | 0.5ml; Not Clear Amber, Skirted; Sterile           | 5000/CS |
| STA05-015    | 1.5ml; Not Clear Amber, Skirted;                   | 500/PK; |
| STA05-015-S  | 1.5ml; Not Clear Amber, Skirted; Sterile           | 5000/CS |
| STA05-020    | 2.0ml; Not Clear Amber, Skirted;                   | 500/PK; |
| STA05-020-S  | 2.0ml; Not Clear Amber, Skirted; Sterile           | 5000/CS |
| STB05-005    | 0.5ml; Semi-clear Amber; Skirted;                  | 500/PK; |
| STB05-005-S  | 0.5ml; Semi-clear Amber; Skirted; Sterile          | 5000/CS |
| STB05-015    | 1.5ml; Semi-clear Amber; Skirted;                  | 500/PK; |
| STB05-015-S  | 1.5ml; Semi-clear Amber; Skirted; Sterile          | 5000/CS |
| STB05-020    | 2.0ml; Semi-clear Amber; Skirted;                  | 500/PK; |
| STB05-020-S  | 2.0ml; Semi-clear Amber; Skirted; Sterile          | 5000/CS |
| STX05-005    | 0.5ml; Not Clear Brownish yellow, Skirted;         | 500/PK; |
| STX05-005-S  | 0.5ml; Not Clear Brownish yellow, Skirted; Sterile | 5000/CS |
| STX05-015    | 1.5ml; Not Clear Brownish yellow, Skirted;         | 500/PK; |
| STX05-015-S  | 1.5ml; Not Clear Brownish yellow, Skirted; Sterile | 5000/CS |
| STX05-020    | 2.0ml; Not Clear Brownish yellow, Skirted;         | 500/PK; |
| STX05-020-S  | 2.0ml; Not Clear Brownish yellow, Skirted; Sterile | 5000/CS |



## DARSUN™ Tether Screw Cap Micro

| Tubes          | Description                                               | Package |
|----------------|-----------------------------------------------------------|---------|
| Order number   | 0.5ml; Tether caps; White mark; Skirted;                  | 500/PK; |
| ST05-005-C     | 0.5ml; Tethercaps; Whitemark;Skirted; Sterile             | 5000/CS |
| ST05-005-C-S   | 1.5ml; Tether caps; White mark; Skirted;                  | 500/PK; |
| ST05-015-C     | 1.5ml; Tether caps; White mark; Skirted; Sterile          | 5000/CS |
| ST05-015-C-S   | 1.5ml; Tether caps, Skirted;                              | 500/PK; |
| ST05-015N-C    | 1.5ml; Tether caps, Skirted; Sterile                      | 5000/CS |
| ST05-015N-C-S  | 1.5ml; Tether caps; White mark; Skirted;                  | 500/PK; |
| ST05-020-C     | 1.5ml; Tether caps; White mark; Skirted; Sterile          | 5000/CS |
| ST05-020-C-S   | 0.5ml; Tether caps; Semi-clearamber;Skirted;              | 500/PK; |
| STB05-005-C    | 0.5ml; Tether caps; Semi-clearamber; Skirted;Sterile      | 5000/CS |
| STB05-005-C-S  | 1.5ml; Tether caps; Semi-clearamber;Skirted;              | 500/PK; |
| STB05-015-C    | 1.5ml; Tethercaps; Semi-clearamber;Skirted; Sterile       | 5000/CS |
| STB05-015-C-S  | 1.5ml; Tether caps; Semi-clear amber ; No-Skirted;        | 500/PK; |
| STB05-015N-C   | 1.5ml; Tether caps; Semi-clear amber; No-Skirted; Sterile | 5000/CS |
| STB05-015N-C-S | 2.0ml; Tether caps; Semi-clear amber ; Skirted;           | 500/PK; |
| STB05-020-C    | 2.0ml; Tethercaps; Semi-clearamber; Skirted;Sterile       | 5000/CS |



## DARSUN™ 5ml Screw Cap Micro Tubes, Skirted

- ☐ There is a risk of leakage of 5-7ml pressed sample tubes under high and low negative pressures  
☐ The 5-7ml sample tube can be selected with screw cap and snap cap

| Order number | Description                                      | Package |
|--------------|--------------------------------------------------|---------|
| ST05-050     | 5ml; Screw cap; With washer; With scale;         | 300/PK; |
| ST05-050-S   | 5ml; Screw cap; With washer; With scale; Sterile | 3000/CS |
| ST05-S50     | 5ml; Screw cap; With washer; With scale;         | 300/PK; |
| ST05-S50-S   | 5ml; Screw cap; With washer; With scale; Sterile | 3000/CS |
| ST05-507     | 5-7ml; Screw cap                                 | 300/PK; |
| ST05-507-S   | 5-7ml; Screw cap, Sterile                        | 3000/CS |
| STP05-507    | 5-7ml; Snap cap                                  | 300/PK; |
| STP05-507-S  | 5-7ml; Snap cap, Sterile                         | 3000/CS |





## DARSUN™ 13mm Sample tube color cap

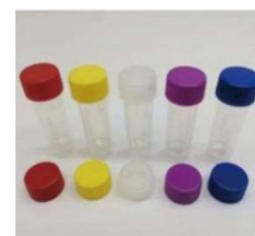
- ☐ Color caps help customers distinguish between samples and reagents
- ☐ 13mm sample tube color cap can be adapted to 0.5ml, 1.5ml, 2.0ml
- ☐ And 1.5ml non-selfstand sample tubes
- ☐ RNase/DNase-free
- ☐ Human DNA-free
- ☐ Non- Pyrogen/Endotoxin
- ☐ Non-cytotoxic
- ☐ Sterile packaging was also provided



| Ordernumber                        | Description                    | Package |
|------------------------------------|--------------------------------|---------|
| DARSUN™ 13mm Sample tube color cap |                                |         |
| ST05-2R                            | 13mmSampletubecolorcap;Red     | 500/PK; |
| ST05-2O                            | 13mmSampletubecolorcap;Orange  | 10PK/CS |
| ST05-2Y                            | 13mmSampletubecolorcap;Yellow  | 500/PK; |
| ST05-2G                            | 13mmSampletubecolorcap;Green   | 10PK/CS |
| ST05-2B                            | 13mmSampletubecolorcap;Blue    | 500/PK; |
| ST05-2P                            | 13mmSampletubecolorcap;Pink    | 10PK/CS |
| ST05-2V                            | 13mmSampletubecolorcap;Violet  | 500/PK; |
| ST05-2W                            | 13mmSampletubecolorcap;White   | 10PK/CS |
| ST05-2A                            | 13mmSampletubecolorcap;Amber   | 500/PK; |
| ST05-2N                            | 13mmSampletubecolorcap;Natural | 10PK/CS |

## DARSUN™ 18mm Sample tube color cap

- ☐ Colorcapshelpcustomers distinguishbetweensamplesandreagents
- ☐ 18mm sample tube color cap can be adapted to 5ml tubes
- ☐ RNA se/D Nas e- f re e
- ☐ Human DNA-free
- ☐ Non- Pyrogen/Endotoxin
- ☐ Non-cytotoxic
- ☐ Sterile packaging was also provided



| OrderNO. | Description                    | Package  |
|----------|--------------------------------|----------|
| ST05-5R  | 18mmSampletubecolorcap;Red     | 300/PK;  |
| ST05-5O  | 18mmSampletubecolorcap;Orange  | 10PK//CS |
| ST05-5Y  | 18mmSampletubecolorcap;Yellow  | 300/PK;  |
| ST05-5G  | 18mmSampletubecolorcap;Green   | 10PK//CS |
| ST05-5B  | 18mmSampletubecolorcap;Blue    | 300/PK;  |
| ST05-5P  | 18mmSampletubecolorcap;Pink    | 10PK//CS |
| ST05-5V  | 18mmSampletubecolorcap;Violet  | 300/PK;  |
| ST05-5W  | 18mmSampletubecolorcap;White   | 10PK//CS |
| ST05-5A  | 18mmSampletubecolorcap;Amber   | 300/PK;  |
| ST05-5N  | 18mmSampletubecolorcap;Natural | 10PK//CS |

# Reagent Bottles Series



| Resin                                       |                               | LDPE      | HDPE       | PP         | 135 | PC         | 135  | PET        |
|---------------------------------------------|-------------------------------|-----------|------------|------------|-----|------------|------|------------|
| Maximum Service Temperature °C              | 80                            |           | 120        | 107        | 0   | 138        | -135 | 70         |
| DT Temperature °C                           | 45                            |           | 65         | Half Clear |     | Half Clear |      | 70         |
| Enbrittlement Temperature °C                | 100                           |           | -100       | Yes        |     | Yes        |      | -40        |
| Clear                                       | Half Clear                    |           | Half Clear |            |     |            |      | Half Clear |
| High temperature and pressure sterilization |                               |           | No         |            |     |            |      | No         |
| Sterilization                               | Gas                           | Yes       | Yes        | Yes        |     | Yes        |      | Yes        |
|                                             | Dry Heat                      | No        | No         | No         | No  | No         |      | No         |
|                                             | Radiation                     | Yes       | Yes        | Yes        |     | Yes        |      | Yes        |
|                                             | Disinfectant                  | Yes       | Yes        | 0.9        |     | Yes        |      | Part       |
| Specific gravity                            |                               | 0.92      | 0.95       | Rigid      |     | 1.2        |      | 1.27       |
| Flexibility                                 |                               | Excellent | Rigid      | 48         |     | Rigid      |      | Medium     |
| Permeability                                | N <sub>2</sub> O <sub>2</sub> | 180       | 42         | 240        |     | 50         |      | 10         |
| cc.-mil/100in <sup>2</sup> -24              | CO <sub>2</sub>               | 500       | 185        | 800        |     | 300        |      | 25         |
| hr.-atm)                                    |                               | 2700      | 580        |            |     | 1075       |      | 125        |

Notes:

1. Autoclaving is recommended at 121 ° C, 15PSIG (1bar) for 20 minutes.
2. For best results, use a low exhaust cycle.
3. Please unscrew or place the cap on the bottle, do not screw the seal before the operation of the DARSUN® product

## DARSUN<sup>TM</sup> Narrow-Mouth PP Bottles with Closure: Autoclavable

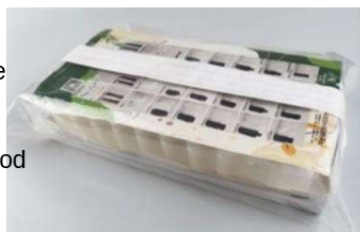
Perform lab applications requiring excellent chemical resistance and autoclaving

Polypropylene copolymer bottles are translucent, providing good clarity for viewing contents.

Made from high-quality, laboratory-grade plastic materials for dependably low leachables and extractables.

Linerless caps provide the ultimate in leak proof protection without the use of a liner that can wrinkle, cause leaks, or contaminate your reagents

- ☐ Autoclavable
- ☐ Leakproof design
- ☐ Manufactured from non-toxic materials
- ☐ RNase/DNase-free
- ☐ Ideal for storing, sampling, transporting and packaging products
- ☐ Note: Completely disengage threads or remove cap before autoclaving.



| Order number                                                                           | Description                                    | Package                     |
|----------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------|
| DARSUN Narrow-Mouth PP Bottles with Closure: Autoclavable; RNase/DNase-free            |                                                |                             |
| NB05-4                                                                                 | 4ml; PP bottle body; PP bottle cap             | 50/PK; 500/CS               |
| NB05-8                                                                                 | 8ml; PP bottle body; PP bottle cap             | 50PCS/tray; 500PCS/CS       |
| NB05-15                                                                                | 15ml; PP bottle body; PP bottle cap            | 50PCS/tray; 500PCS/CS       |
| NB05-30                                                                                | 30ml; PP bottle body; PP bottle cap            | 50PCS/tray; 500PCS/CS       |
| NB05-60                                                                                | 60ml; PP bottle body; PP bottle cap            | 50PCS/tray; 500PCS/CS       |
| NB05-125                                                                               | 125ml; PP bottle body; PP bottle cap           | 50PCS/tray; 250PCS/CS       |
| NB05-250                                                                               | 250ml; PP bottle body; PP bottle cap           | 25PCS/tray; 125PCS/CS       |
| NB05-500                                                                               | 500ml; PP bottle body; PP bottle cap           | 10/PK; 100/CS               |
| NB05-1000                                                                              | 1000ml; PP bottle body; PP bottle cap          | 6/PK; 48/CS                 |
| NB05-2000                                                                              | 2000ml; PP bottle body; PP bottle cap          | Individual packaging; 25/CS |
| DARSUN Narrow-Mouth PP Bottles with Closure: Autoclavable; RNase/DNase-free; Sterile   |                                                |                             |
| NB05-4-S                                                                               | 4ml; PP bottle body; PP bottle cap; Sterile    | 50/PK; 500/CS               |
| NB05-8-S                                                                               | 8ml; PP bottle body; PP bottle cap; Sterile    | 50PCS/tray; 500PCS/CS       |
| NB05-15-S                                                                              | 15ml; PP bottle body; PP bottle cap; Sterile   | 50PCS/tray; 500PCS/CS       |
| NB05-30-S                                                                              | 30ml; PP bottle body; PP bottle cap; Sterile   | 50PCS/tray; 500PCS/CS       |
| NB05-60-S                                                                              | 60ml; PP bottle body; PP bottle cap; Sterile   | 50PCS/tray; 500PCS/CS       |
| NB05-125-S                                                                             | 125ml; PP bottle body; PP bottle cap; Sterile  | 50PCS/tray; 250PCS/CS       |
| NB05-250-S                                                                             | 250ml; PP bottle body; PP bottle cap; Sterile  | 25PCS/tray; 125PCS/CS       |
| NB05-500-S                                                                             | 500ml; PP bottle body; PP bottle cap; Sterile  | 10/PK; 100/CS               |
| NB05-1000-S                                                                            | 1000ml; PP bottle body; PP bottle cap; Sterile | 6/PK; 48/CS                 |
| NB05-2000-S                                                                            | 2000ml; PP bottle body; PP bottle cap; Sterile | Individual packaging; 25/CS |
| DARSUN Narrow-Mouth PP Bottles with Closure: Autoclavable; RNase/DNase-free; Bulk Pack |                                                |                             |
| NBG05-4                                                                                | 4ml; PP bottle body; PP bottle cap             | 500/CS                      |
| NBG05-8                                                                                | 8ml; PP bottle body; PP bottle cap             | 500/CS                      |
| NBG05-15                                                                               | 15ml; PP bottle body; PP bottle cap            | 500/CS                      |
| NBG05-30                                                                               | 30ml; PP bottle body; PP bottle cap            | 500/CS                      |
| NBG05-60                                                                               | 60ml; PP bottle body; PP bottle cap            | 500/CS                      |
| NBG05-125                                                                              | 125ml; PP bottle body; PP bottle cap           | 250/CS                      |
| NBG05-250                                                                              | 250ml; PP bottle body; PP bottle cap           | 125/CS                      |
| NBG05-500                                                                              | 500ml; PP bottle body; PP bottle cap           | 100/CS                      |
| NBG05-1000                                                                             | 1000ml; PP bottle body; PP bottle cap          | 48/CS                       |



## DARSUN™ Round Narrow-Mouth HDPE Bottles

- Ideal for packaging and shipping liquids, Boston Round Narrow-Mouth HDPE Bottles are highly reliable and durable for long-term use, and offer excellent chemical resistance.
- These semi-rigid, translucent, all-purpose bottles are specifically designed for long-term, demanding lab use and offer excellent chemical resistance.
- Linerless polypropylene closures ensure leakproof† protection without the use of liner that can wrinkle, cause leaks or contaminate your reagents
- Made only from high quality, laboratory-grade plastic materials for dependably low leachables and extractables.
- Uniform walls provide durability and resistance to splitting or punctures
- Leakproof
- Can be used in a freezer up to -100°C (-149°F)
- Versatile and indispensable in the lab
- Manufactured from non-toxic materials
- RNAse/DNase free
- Sterile and non-sterile are provided



| Order number                                                         | Description                                      | Package                 |
|----------------------------------------------------------------------|--------------------------------------------------|-------------------------|
| DARSUN Narrow-Mouth HDPE Lab Quality Bottles with Closure            |                                                  |                         |
| NB02-4                                                               | 4ml; HDPE bottle body; PP bottle cap 8ml;        | 50/PK; 500/CS           |
| NB02-8                                                               | HDPE bottle body; PP bottle cap 15ml;            | 50 PCS/tray; 500 PCS/CS |
| NB02-15                                                              | HDPE bottle body; PP bottle cap 30ml;            | 50 PCS/tray; 500 PCS/CS |
| NB02-30                                                              | HDPE bottle body; PP bottle cap 60ml;            | 50 PCS/tray; 500 PCS/CS |
| NB02-60                                                              | HDPE bottle body; PP bottle cap 125ml;           | 50 PCS/tray; 500 PCS/CS |
| NB02-125                                                             | HDPE bottle body; PP bottle cap 250ml;           | 50 PCS/tray; 250 PCS/CS |
| NB02-250                                                             | HDPE bottle body; PP bottle cap 500ml;           | 25 PCS/tray; 125 PCS/CS |
| NB02-500                                                             | HDPE bottle body; PP bottle cap 1000ml;          | 10/PK; 100/CS           |
| NB02-1000                                                            | HDPE bottle body; PP bottle cap 2000ml;          | 6/PK; 48/CS             |
| NB02-2000                                                            | HDPE bottle body; PP bottle cap                  | Individual packaging;   |
| DARSUN Narrow-Mouth HDPE Lab Quality Bottles with Closure; Sterile   |                                                  | 25/CS                   |
| NB02-4-S                                                             | 4ml; HDPE bottle body; PP bottle cap; Sterile    | 50/PK; 500/CS           |
| NB02-8-S                                                             | 8ml; HDPE bottle body; PP bottle cap; Sterile    | 50 PCS/tray; 500 PCS/CS |
| NB02-15-S                                                            | 15ml; HDPE bottle body; PP bottle cap; Sterile   | 50 PCS/tray; 500 PCS/CS |
| NB02-30-S                                                            | 30ml; HDPE bottle body; PP bottle cap; Sterile   | 50 PCS/tray; 500 PCS/CS |
| NB02-60-S                                                            | 60ml; HDPE bottle body; PP bottle cap; Sterile   | 50 PCS/tray; 500 PCS/CS |
| NB02-125-S                                                           | 125ml; HDPE bottle body; PP bottle cap; Sterile  | 50 PCS/tray; 250 PCS/CS |
| NB02-250-S                                                           | 250ml; HDPE bottle body; PP bottle cap; Sterile  | 25 PCS/tray; 125 PCS/CS |
| NB02-500-S                                                           | 500ml; HDPE bottle body; PP bottle cap; Sterile  | 10/PK; 100/CS           |
| NB02-1000-S                                                          | 1000ml; HDPE bottle body; PP bottle cap; Sterile | 6/PK; 48/CS             |
| NB02-2000-S                                                          | 2000ml; HDPE bottle body; PP bottle cap; Sterile | Individual packaging;   |
| DARSUN Narrow-Mouth HDPE Lab Quality Bottles with Closure; Bulk Pack |                                                  | 25/CS                   |
| NBG02-4                                                              | 4ml; HDPE bottle body; PP bottle cap 8ml;        | 500/C                   |
| NBG02-8                                                              | HDPE bottle body; PP bottle cap 15ml;            | S                       |
| NBG02-15                                                             | HDPE bottle body; PP bottle cap 30ml;            | 500/C                   |
| NBG02-30                                                             | HDPE bottle body; PP bottle cap 60ml;            | S                       |
| NBG02-60                                                             | HDPE bottle body; PP bottle cap 125ml;           | 500/C                   |
| NBG02-125                                                            | HDPE bottle body; PP bottle cap 250ml;           | S                       |
| NBG02-250                                                            | HDPE bottle body; PP bottle cap 500ml;           | 500/C                   |
| NBG02-500                                                            | HDPE bottle body; PP bottle cap 1000ml;          | S                       |
| NBG02-1000                                                           | HDPE bottle body; PP bottle cap                  | 500/C                   |

## DARSUN™ Round Narrow-Mouth Amber HDPE Bottles



| Ordernumber                                                         | Capacity                                           | Package                 |
|---------------------------------------------------------------------|----------------------------------------------------|-------------------------|
| DARSUN Narrow-Mouth AmberHDPELabQualityBottleswithClosure           |                                                    |                         |
| ANB02-4                                                             | 4ml; HDPEbottlebody;PPbottlecap; Amber             | 50/PK; 500/CS           |
| ANB02-8                                                             | 8ml; HDPEbottlebody;PPbottlecap; Amber             | 50PCS/tray; 500PCS/CS   |
| ANB02-15                                                            | 15ml; HDPEbottlebody; PPbottlecap; Amber           | 50PCS/tray; 500PCS/CS   |
| ANB02-30                                                            | 30ml; HDPEbottlebody;PPbottlecap; Amber            | 50PCS/tray; 500PCS/CS   |
| ANB02-60                                                            | 60ml; HDPEbottlebody;PPbottlecap; Amber            | 50PCS/tray; 500PCS/CS   |
| ANB02-125                                                           | 125ml; HDPEbottlebody;PPbottlecap; Amber           | 50PCS/tray; 250PCS/CS   |
| ANB02-250                                                           | 250ml; HDPEbottlebody;PPbottlecap; Amber           | 25 PCS/tray; 125 PCS/CS |
| ANB02-500                                                           | 500ml; HDPEbottlebody;PPbottlecap; Amber           | 10/PK; 100/CS           |
| ANB02-1000                                                          | 1000ml; HDPEbottlebody;PPbottlecap; Amber          | 6/PK; 48/CS             |
| ANB02-2000                                                          | 2000ml; HDPEbottlebody;PPbottlecap; Amber          | Individual packaging;   |
| DARSUN Narrow-Mouth AmberHDPELabQualityBottleswithClosure; Sterile  |                                                    | 25/CS                   |
| ANB02-4-S                                                           | 4ml;HDPEbottlebody;PPbottlecap; Sterile; Amber     | 50/PK; 500/CS           |
| ANB02-8-S                                                           | 8ml; HDPEbottlebody;PPbottlecap; Sterile; Amber    | 50PCS/tray; 500PCS/CS   |
| ANB02-15-S                                                          | 15ml; HDPEbottlebody; PPbottlecap; Sterile; Amber  | 50PCS/tray; 500PCS/CS   |
| ANB02-30-S                                                          | 30ml; HDPEbottlebody;PPbottlecap; Sterile; Amber   | 50PCS/tray; 500PCS/CS   |
| ANB02-60-S                                                          | 60ml; HDPEbottlebody;PPbottlecap; Sterile; Amber   | 50PCS/tray; 500PCS/CS   |
| ANB02-125-S                                                         | 125ml; HDPEbottlebody;PPbottlecap; Sterile; Amber  | 50PCS/tray; 250PCS/CS   |
| ANB02-250-S                                                         | 250ml; HDPEbottlebody;PPbottlecap; Sterile; Amber  | 25 PCS/tray; 125 PCS/CS |
| ANB02-500-S                                                         | 500ml; HDPEbottlebody;PPbottlecap; Sterile; Amber  | 10/PK; 100/CS           |
| ANB02-1000-S                                                        | 1000ml; HDPEbottlebody;PPbottlecap; Sterile; Amber | 6/PK; 48/CS             |
| ANB02-2000-S                                                        | 2000ml; HDPEbottlebody;PPbottlecap; Sterile; Amber | Individual packaging;   |
| DARSUN Narrow-Mouth AmberHDPELabQualityBottleswithClosure; BulkPack |                                                    | 25/CS                   |
| ANBG02-4                                                            | 4ml; HDPEbottlebody;PPbottlecap; Amber             | 500/C                   |
| ANBG02-8                                                            | 8ml; HDPEbottlebody;PPbottlecap; Amber             | S                       |
| ANBG02-15                                                           | 15ml; HDPEbottlebody; PPbottlecap; Amber           | 500/C                   |
| ANBG02-30                                                           | 30ml; HDPEbottlebody;PPbottlecap; Amber            | S                       |
| ANBG02-60                                                           | 60ml; HDPEbottlebody;PPbottlecap; Amber            | 500/C                   |
| ANBG02-125                                                          | 125ml; HDPEbottlebody;PPbottlecap; Amber           | S                       |
| ANBG02-250                                                          | 250ml; HDPEbottlebody;PPbottlecap; Amber           | 500/C                   |
| ANBG02-500                                                          | 500ml; HDPEbottlebody;PPbottlecap; Amber           | S                       |
| ANBG02-1000                                                         | 1000ml; HDPEbottlebody;PPbottlecap; Amber          | 500/C                   |

S

250/C

S

125/C

S

## DARSUN Wide-Mouth PP Bottles with Closure, Autoclavable

- ☐ Stores specimens where autoclaving is required with Made from high-quality, laboratory-grade plastic materials for reliably low leachables and extractables.
- ☐ Excellent chemical resistance to most acids, bases and alcohol
- ☐ Translucent for easy viewing of liquid levels
- ☐ Wide mouth for easy filling
- ☐ Linerless polypropylene closures ensure leak proof† protection without the use of liner that can wrinkle, cause leaks or contaminate your reagents
- ☐ Autoclavable
- ☐ Leak proof design
- ☐ RNase/DNase-free
- ☐ Manufactured from non-toxic materials
- ☐ Sterile and non-sterile are provided

Note: Completely disengage threads or remove cap before autoclaving.



| Order number                                                            | Description                                                  | Package                     |
|-------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------|
| DARSUN Wide-Mouth Lab Quality PP Bottles with Closure; RNase/DNase-free |                                                              |                             |
| WB05-30                                                                 | 30ml; PP bottle body; PP bottle cap                          | 50/Tray; 500/CS             |
| WB05-60                                                                 | 60ml; PP bottle body; PP bottle cap                          | 50/Tray; 500/CS             |
| WB05-125                                                                | 125ml; PP bottle body; PP bottle cap                         | 50/Tray; 250/CS             |
| WB05-250                                                                | 250ml; PP bottle body; PP bottle cap                         | 25/Tray; 125/CS             |
| WB05-500                                                                | 500ml; PP bottle body; PP bottle cap                         | 10/PK; 100/CS               |
| WB05-1000                                                               | 1000ml; PP bottle body; PP bottle cap                        | 6/Pk; 48/CS                 |
| WB05-2000S                                                              | 2000ml; PP bottle body; PP bottle cap; caliber 63mm          | Individual packaging; 25/CS |
| WB05-2000                                                               | 2000ml; PP bottle body; PP bottle cap                        | Individual packaging; 25/CS |
| WB05-4000S                                                              | 4000ml; PP bottle body; PP bottle cap; caliber 63mm          | Individual packaging; 6/CS  |
| WB05-4000                                                               | 4000ml; PP bottle body; PP bottle cap                        | Individual packaging; 6/CS  |
| DARSUN Wide-Mouth PP Bottles with Closure; RNase/DNase-free; Sterile    |                                                              |                             |
| WB05-30-S                                                               | 30ml; PP bottle body; PP bottle cap; Sterile                 | 50/Tray; 500/CS             |
| WB05-60-S                                                               | 60ml; PP bottle body; PP bottle cap; Sterile                 | 50/Tray; 500/CS             |
| WB05-125-S                                                              | 125ml; PP bottle body; PP bottle cap; Sterile                | 50/Tray; 250/CS             |
| WB05-250-S                                                              | 250ml; PP bottle body; PP bottle cap; Sterile                | 25/Tray; 125/CS             |
| WB05-500-S                                                              | 500ml; PP bottle body; PP bottle cap; Sterile                | 10/PK; 100/CS               |
| WB05-1000-S                                                             | 1000ml; PP bottle body; PP bottle cap; Sterile               | 6/Pk; 48/CS                 |
| WB05-2000S-S                                                            | 2000ml; PP bottle body; PP bottle cap; caliber 63mm; Sterile | Individual packaging; 25/CS |
| WB05-2000-S                                                             | 2000ml; PP bottle body; PP bottle cap; Sterile               | Individual packaging; 25/CS |
| WB05-4000S-S                                                            | 4000ml; PP bottle body; PP bottle cap; caliber 63mm; Sterile | Individual packaging; 6/CS  |
| WB05-4000-S                                                             | 4000ml; PP bottle body; PP bottle cap; Sterile               | Individual packaging; 6/CS  |
| DARSUN Wide-Mouth PP Bottles with Closure; RNase/DNase-free; Bulk Pack  |                                                              |                             |
| WBG05-30                                                                | 30ml; PP bottle body; PP bottle cap                          | 500/C                       |
| WBG05-60                                                                | 60ml; PP bottle body; PP bottle cap                          | S                           |
| WBG05-125                                                               | 125ml; PP bottle body; PP bottle cap                         | 500/C                       |
| WBG05-250                                                               | 250ml; PP bottle body; PP bottle cap                         | S                           |
| WBG05-500                                                               | 500ml; PP bottle body; PP bottle cap                         | 250/C                       |
| WBG05-1000                                                              | 1000ml; PP bottle body; PP bottle cap                        | S                           |
|                                                                         |                                                              | 125/C                       |
|                                                                         |                                                              | S                           |
|                                                                         |                                                              | 100/C                       |
|                                                                         |                                                              | S                           |
|                                                                         |                                                              | 48/CS                       |



## DARSUN Wide-Mouth HDPE Bottles with Closure

- Wide-Mouth HDPE Bottles Ideal for storing, sampling, transporting and packaging products. excellent chemical resistance to most acids, bases and alcohols and are suitable for freezer use to  $-100^{\circ}\text{C}$ . Leakproof design.
- Made only from high-quality, laboratory-grade plastic materials for dependably low leachables and extractables.
- uniform walls provide durability and resistance to splitting or punctures
- Linerless caps provide the ultimate in leakproof† protection without the use of a liner that can wrinkle, cause leaks, or contaminate your reagents
- RNase/DNase-free
- Manufactured from non-toxic materials
- Sterile and non-sterile are provided



| Order number                                                           | Description                                            | Package                     |
|------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------|
| DARSUN™ Wide-Mouth Lab Quality HDPE Bottles; RNase/DNase-free          |                                                        |                             |
| WB02-30                                                                | 30ml; HDPE bottle body; PP bottle cap                  | 50/Tray; 500/CS             |
| WB02-60                                                                | 60ml; HDPE bottle body; PP bottle cap                  | 50/Tray; 500/CS             |
| WB02-125                                                               | 125ml; HDPE bottle body; PP bottle cap                 | 50/Tray; 250/CS             |
| WB02-250                                                               | 250ml; HDPE bottle body; PP bottle cap                 | 25/Tray; 125/CS             |
| WB02-500                                                               | 500ml; HDPE bottle body; PP bottle cap                 | 10/PK; 100/CS               |
| WB02-1000                                                              | 1000ml; HDPE bottle body; PP bottle cap                | 6/Pk; 48/CS                 |
| WB02-2000S                                                             | 2000ml; HDPE bottle body; PP bottle cap; Caliber: 63mm | Individual packaging; 25/CS |
| WB02-2000                                                              | 2000ml; HDPE bottle body; PP bottle cap                | Individual packaging; 25/CS |
| WB02-4000S                                                             | 4000ml; HDPE bottle body; PP bottle cap; Caliber: 63mm | Individual packaging; 6/CS  |
| WB02-4000                                                              | 4000ml; HDPE bottle body; PP bottle cap                | Individual packaging; 6/CS  |
| DARSUN™ Wide-Mouth Lab Quality HDPE Bottles; RNase/DNase-free; Sterile |                                                        |                             |
| 30-S WB02-60-S                                                         | 30ml; HDPE bottle body; PP bottle cap                  | 50/Tray; 500/CS             |
| S WB02-125-S                                                           | 60ml; HDPE bottle body; PP bottle cap                  | 50/Tray; 500/CS             |
| WB02-250-S                                                             | 125ml; HDPE bottle body; PP bottle cap                 | 50/Tray; 250/CS             |
| WB02-500-S                                                             | 250ml; HDPE bottle body; PP bottle cap                 | 25/Tray; 125/CS             |
| WB02-1000-S                                                            | 500ml; HDPE bottle body; PP bottle cap                 | 10/PK; 100/CS               |
| WB02-2000S-S                                                           | 1000ml; HDPE bottle body; PP bottle cap                | 6/Pk; 48/CS                 |
| WB02-2000-S                                                            | 2000ml; HDPE bottle body; PP bottle cap; Caliber: 63mm | Individual packaging; 25/CS |
| WB02-4000S-S                                                           | 2000ml; HDPE bottle body; PP bottle cap                | Individual packaging; 25/CS |
| WB02-4000-S                                                            | 4000ml; HDPE bottle body; PP bottle cap; Caliber: 63mm | Individual packaging; 6/CS  |
|                                                                        | 4000ml; HDPE bottle body; PP bottle cap                | Individual packaging; 6/CS  |
| DARSUN™ Wide-Mouth HDPE Bottles; RNase/DNase-free; Bulk Pack           |                                                        |                             |
| WBG02-30                                                               | 30ml; HDPE bottle body; PP bottle cap                  | 500/C                       |
| WBG02-60                                                               | 60ml; HDPE bottle body; PP bottle cap                  | S                           |
| WBG02-125                                                              | 125ml; HDPE bottle body; PP bottle cap                 | 500/C                       |
| WBG02-250                                                              | 250ml; HDPE bottle body; PP bottle cap                 | S                           |
| WBG02-500                                                              | 500ml; HDPE bottle body; PP bottle cap                 | 250/C                       |
| WBG02-1000                                                             | 1000ml; HDPE bottle body; PP bottle cap                | S                           |

**DARSUN Wide-Mouth Amber HDPE Bottles with Closure**  
For light sensitive materials



| Order number                                                                         | Description                                                            | Package                     |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------|
| <b>DARSUN Wide-Mouth Lab Quality Amber HDPE Bottles; RNase/DNase-free</b>            |                                                                        |                             |
| AWB02-30                                                                             | 30ml; HDPE bottle body; PP bottle cap; Amber                           | 50/Tray; 500/CS             |
| AWB02-60                                                                             | 60ml; HDPE bottle body; PP bottle cap; Amber                           | 50/Tray; 500/CS             |
| AWB02-125                                                                            | 125ml; HDPE bottle body; PP bottle cap; Amber                          | 50/Tray; 250/CS             |
| AWB02-250                                                                            | 250ml; HDPE bottle body; PP bottle cap; Amber                          | 25/Tray; 125/CS             |
| AWB02-500                                                                            | 500ml; HDPE bottle body; PP bottle cap; Amber                          | 10/PK; 100/CS               |
| AWB02-1000                                                                           | 1000ml; HDPE bottle body; PP bottle cap; Amber                         | 6/Pk; 48/CS                 |
| AWB02-2000S                                                                          | 2000ml; HDPE bottle body; PP bottle cap; Caliber: 63mm; Amber          | Individual packaging; 25/CS |
| AWB02-2000                                                                           | 2000ml; HDPE bottle body; PP bottle cap; Amber                         | Individual packaging; 25/CS |
| AWB02-4000S                                                                          | 4000ml; HDPE bottle body; PP bottle cap; Caliber: 63mm; Amber          | Individual packaging; 6/CS  |
| AWB02-4000                                                                           | 4000ml; HDPE bottle body; PP bottle cap; Amber                         | Individual packaging; 6/CS  |
| <b>DARSUN Wide-Mouth Lab Quality Amber HDPE Bottles; RNase/DNase-free; Sterile</b>   |                                                                        |                             |
| AWB02-30-S                                                                           | 30ml; HDPE bottle body; PP bottle cap; Amber; Sterile                  | 50/Tray; 500/CS             |
| AWB02-60-S                                                                           | 60ml; HDPE bottle body; PP bottle cap; Amber; Sterile                  | 50/Tray; 500/CS             |
| AWB02-125-S                                                                          | 125ml; HDPE bottle body; PP bottle cap; Amber; Sterile                 | 50/Tray; 250/CS             |
| AWB02-250-S                                                                          | 250ml; HDPE bottle body; PP bottle cap; Amber; Sterile                 | 25/Tray; 125/CS             |
| AWB02-500-S                                                                          | 500ml; HDPE bottle body; PP bottle cap; Amber; Sterile                 | 10/PK; 100/CS               |
| AWB02-1000-S                                                                         | 1000ml; HDPE bottle body; PP bottle cap; Amber; Sterile                | 6/Pk; 48/CS                 |
| AWB02-2000S-S                                                                        | 2000ml; HDPE bottle body; PP bottle cap; Caliber: 63mm; Amber; Sterile | Individual packaging; 25/CS |
| AWB02-2000-S                                                                         | 2000ml; HDPE bottle body; PP bottle cap; Amber; Sterile                | Individual packaging; 25/CS |
| AWB02-4000S-S                                                                        | 4000ml; HDPE bottle body; PP bottle cap; Caliber: 63mm; Amber; Sterile | Individual packaging; 6/CS  |
| AWB02-4000-S                                                                         | 4000ml; HDPE bottle body; PP bottle cap; Amber; Sterile                | Individual packaging; 6/CS  |
| <b>DARSUN™ Wide-Mouth Lab Quality Amber HDPE Bottles; RNase/DNase-free; 大Package</b> |                                                                        |                             |
| AWBG02-30                                                                            | 30ml; HDPE bottle body; PP bottle cap; Amber                           | 500/CS                      |
| AWBG02-60                                                                            | 60ml; HDPE bottle body; PP bottle cap; Amber                           | 500/CS                      |
| AWBG02-125                                                                           | 125ml; HDPE bottle body; PP bottle cap; Amber                          | 250/CS                      |
| AWBG02-250                                                                           | 250ml; HDPE bottle body; PP bottle cap; Amber                          | 125/CS                      |
| AWBG02-500                                                                           | 500ml; HDPE bottle body; PP bottle cap; Amber                          | 100/CS                      |
| AWBG02-1000                                                                          | 1000ml; HDPE bottle body; PP bottle cap; Amber                         | 48/CS                       |

## DARSUN™ Heavy-Duty Vacuum Bottles with Closure

- Hold full vacuum for up to 24 hours with Heavy-Duty PP Vacuum Bottles.
- Ideal for heavy-duty biotechnology lab use, these thick-walled bottles can withstand repeated room-temperature vacuum applications.
- Use as a waste aspirator bottle or as an autoclavable vessel for scale up activities
- in cell culture applications.
- The bottle cap is designed to withstand wear and tear, and the wide diameter thick and durable vacuum bottle has ultra-high strength
- Reinforced polypropylene white cap design with gasket for complete leak proof
- DARSUN vacuum bottles are available in polypropylene, HDPE and amber HDPE
- For the storage and transportation of liquids and dry materials, as well as storage tanks and waste containers for automated instruments. Each bottle can be equipped with a three-way cap.
- For liquid dispenser or rehydration device



| Order number                                                  | Capacity | Height | Outside diameter | Inner diameter of bottle mouth | Package |
|---------------------------------------------------------------|----------|--------|------------------|--------------------------------|---------|
| DARSUN Heavy-Duty PP Vacuum Bottles with Closure; leakproof   |          |        |                  |                                |         |
| PB05-1000                                                     | 1000ml   | 228mm  | 88mm             | 39mm                           | 25/C    |
| PB05-2000                                                     | 2000ml   | 260mm  | 119mm            | m                              | S       |
| PB05-4000                                                     | 4000ml   | 335mm  | 154mm            | 39mm                           | 20/C    |
| DARSUN Heavy-Duty HDPE Vacuum Bottles with Closure; leakproof |          |        |                  | m                              | S       |
| PB02-1000                                                     | 1000ml   | 228mm  | 88mm             | 39mm                           | 25/C    |
| PB02-2000                                                     | 2000ml   | 260mm  | 119mm            | m                              | S       |
| PB02-4000                                                     | 4000ml   | 335mm  | 154mm            | 39mm                           | 20/C    |
|                                                               |          |        |                  | m                              | S       |
|                                                               |          |        |                  | 64mm                           | 6/C     |
|                                                               |          |        |                  | m                              |         |

## DARSUN™ Polypropylene, Carboy with Handle

- Autoclavable Carboys for large batches of culture media, vaccine product production, bulk media and chemical storage. These carboys feature a large mouth for easy filling/dispensing, and are made of natural polypropylene with white 83B polypropylene closure and TPE (thermoplastic elastomer) gasket.
- Round design, graduated, leak-proof, excellent chemical resistance, wide shoulders with handles for easy handling and dumping
- Storage vats with drain taps are ideal for storing and distributing solutions, media, distilled water, reagents, etc. Polypropylene storage VAT can be high temperature autoclave sterilization, used to store solvents, media, reagents, vaccines, etc. Compared with HDPE, LDPE uses fewer catalysts and is more suitable for containing reagents sensitive to polymerization catalysts





- ☐ AmberHDPE storage vats are the best choice for storing and mixing photosensitive chemicals, reagents, buffers and standards
- ☐ There are options with and without a Spigot
- ☐ Note: Completely disengage threads or remove cap before autoclaving.

| Order number                                                      | Capacity | Height | Outside diameter | Inner diameter of bottle mouth | Package |
|-------------------------------------------------------------------|----------|--------|------------------|--------------------------------|---------|
| DARSUN Polypropylene, Carboy with Handle; leak-proof              |          |        |                  |                                |         |
| B05-10L                                                           | 10L      | 389mm  | 250mm            | 64mm                           | 1/P     |
| B05-20L                                                           | 20L      | 528mm  | m                | m                              | K       |
| B05-50L                                                           | 50L      | 678mm  | 286mm            | 64mm                           | 1/P     |
| DARSUN Polypropylene, Carboy with Handle; with Spigot; leak-proof |          |        |                  | m                              | K       |
| FB05-10L                                                          | 10L      | 389mm  | 250mm            | 64mm                           | 1/P     |
| FB05-20L                                                          | 20L      | 528mm  | m                | m                              | K       |
| FB05-50L                                                          | 50L      | 678mm  | 286mm            | 64mm                           | 1/P     |
| DARSUN Brown polypropylene, Carboy brown Handle; leak-proof       |          |        |                  | m                              | K       |
| B05-10L-B                                                         | 10L      | 389mm  | 250mm            | 64mm                           | 1/PK    |
|                                                                   |          |        | m                | m                              | K       |

### DARSUN™ Filling/Venting Closures

- ☐ Made of white polypropylene with a white gold silicone hose, the SC05-3-64 series is available in two diameters
- ☐ DARSUN special three-way cover can be used for solvent dispensing, waste liquid collection, rehydration and more



| Order number | Description                                                                                                       | Package |
|--------------|-------------------------------------------------------------------------------------------------------------------|---------|
| SC05-3-39    | Three-way cover; Cover size 53mm tube diameter 6.35mm; Suitable for DARSUN 1000ml, 2000ml vacuum bottles          | 1/PK    |
| SC05-3-64A   | Three-way cover; Cover size 83mm tube diameter 6.35mm; Suitable for DARSUN 4000ml, 5000ml vacuum bottles and vats | 1/PK    |
| SC05-3-64B   | Three-way cover; Cover size 83mm Tube diameter 12.7mm; Suitable for DARSUN 4000ml, 5000ml vacuum bottles and vats | 1/PK    |
| SC05-        | Standard cover; DARSUN 1 liter, 2 liter vacuum pressure bottles                                                   | 1/P     |
| 53B          | Standard cover; Suitable for DARSUN 4 L, 10 L, 20 L, 50 L vats                                                    | K       |

### DARSUN™ Special Spigot

- ☐ Made of white/blue polypropylene material; The connector is made of high density polyethylene
- ☐ DARSUN special faucet can be connected to 16mm hose
- ☐ Equipped with 6-8mm hose connector
- ☐ Suitable for DARSUN storage vats with drain spout



| Order number | Description                                                             | Package |
|--------------|-------------------------------------------------------------------------|---------|
| WT05-10      | Suitable for FB05-10L, FB05-20L, FB05-50L, FB04-10L, FB04-20L, FB04-50L | 1/PK    |

## DARSUN™ Powder free latex gloves

- Easy to access, easy to wear
- Thickened treatment, excellent flexibility
- The original Asian hand-shaped design, both hands can be used, cannot be divided into left and right hands
- Pure natural latex, gloves surface powder free

|                                          | Description | Package    |
|------------------------------------------|-------------|------------|
| DARSUN Powder free latex gloves          |             |            |
| B02-120-A                                | 6-7cm; XS   | 100Pcs/PK; |
| B02-120-B                                | 7-8cm; S    | 10Pk/Cs    |
| B02-120-C                                | 8-9cm; M    | 100Pcs/PK; |
| B02-120-D                                | 9-10cm; L   | 10Pk/Cs    |
| DARSUN Powder free latex gloves; Sterile |             | 100Pcs/PK; |
| B03-120-B                                | 6-7cm; XS   | 10Pk/Cs    |
| B03-120-C                                | 7-8cm; S    | 100Pcs/PK; |
| B03-120-D                                | 8-9cm; M    | 10Pk/Cs    |



## DARSUN™ Nitrile gloves

- Excellent high-density material, tensile resistance and durability
- Fingertip pitting increases friction and improves sensitivity and handling
- Anti-skid, anti-oil, excellent grip strength
- Excellent puncture resistance, enhanced plasticity, strong gloves puncture resistance

|                       | Description | Package    |
|-----------------------|-------------|------------|
| DARSUN Nitrile gloves |             |            |
| B04-120-B             | 7-8cm; S    | 100Pcs/PK; |
| B04-120-C             | 8-9cm; M    | 10Pk/Cs    |
| B04-120-D             | 9-10cm; L   | 100Pcs/PK; |



## DARSUN™ Disposable masks

- Moisture-proof layer - non-woven fabric: using ultra-soft fine fiber, good skin affinity, excellent comfort
- Ultra-soft fine fiber layer - non-woven fabric: with acid, alkali, moisture resistance and other properties
- Filter layer - filter cloth: The use of anti-bacterial filter paper can effectively hinder bacterial dust, thereby reducing bacterial invasion

| Order NO. | Description    | Package             |
|-----------|----------------|---------------------|
| M2007-B   | Blue; 17x9.5cm | 50Pcs/Box; 10Box/Cs |



## DARSUN™ Goggles

- Widen the flanks: effectively prevents splashing into the eyes, more comprehensive protection, more secure
- PC lens: polycarbonate reinforced lens anti-impact, anti-scratch, anti-strong UV
- Comfortable nose support: ergonomic design, comfortable to wear, not easy to fall off, reduce the burden of the nose
- Telescopic mirror legs: four adjustable telescopic mirror legs, with personal face shape, can be adjusted at will



| OrderNO. | Description                                              | Package                 |
|----------|----------------------------------------------------------|-------------------------|
| G2007-N  | Dark blue frame; The mirror legs are adjustable; PC lens | 1 Pair/Pk; 12 Pairs/Box |

## DARSUN™ Anti-fog goggles

- PC material: High transparency, impact resistance, effective protection of eyes
- Nose bridge design: Special nose bridge design, more soft, more fit
- Vent design: effectively prevent lens fog obstructing vision
- Effective blocking 99% UV



| OrderNO. | Description                    | Package                 |
|----------|--------------------------------|-------------------------|
| AG2007-T | PC material: High transparency | 1 Pair/Pk; 12 Pairs/Box |

## DARSUN™ Anti-splash face screen

- Made of plexiglass material
- New style, strong protective performance, comfortable to wear
- Impact resistance, high temperature resistance, acid and alkali resistance, anti-splash
- Headwear: light and durable, flexible structure, comfortable to wear



| OrderNO. | Description         | Package                 |
|----------|---------------------|-------------------------|
| F2007-T  | plexiglass material | 1 Pair/Pk; 12 Pairs/Box |

## DARSUN™ uvex™ Customized myopia goggles

- Perfect for Asian face shape and optimal protection
- The polycarbonate lenses together with the transparent flanks provide comprehensive protection
- Optical Level 1 panoramic lens that gives a wide field of view
- Wrap the legs to ensure a perfect fit to the head
- Weighs only 26g
- Best wear comfort
- Compliant with European Standard (EN), National Standard (GB), American standard (ANSI)
- Available in three leg colors: dark blue, sky blue, black



| OrderNO. | Description     | Package       |
|----------|-----------------|---------------|
| MG2007-N | measured degree | 1 glasses/Box |



## DARSUN™ Lab emergency eye wash device

Fixed dust protection for outdoor operation

Function: eye wash, dust

Working pressure: 0.20-0.40Mpa

Flow rate: Spray: 2.0-3.0/ Eyewash : 0.2-0.3

Laboratory emergency eyewash device is a safe eyewash protection device for special working occasions such as universities, chemical, pharmaceutical, and petroleum



| OrderNO. | Description                  | Package |
|----------|------------------------------|---------|
| EW2007-P | Lab emergency eyewash device | 1Set/Cs |

## DARSUN™ Vertical eye wash device

□ Easy to operate, high strength, firm structure

□ Bright yellow nano ABS coating, coating thickness is 250-300 microns

□ Good oil resistance, acid resistance, alkali resistance, salt solution and other properties

□ Luminous safety signage may also be added

□ Can be equipped with pedals, hands and feet linkage, more convenient and fast

□ Widely used in petroleum, chemical industry, electronics, electric power, electroplating, paper making, semiconductor, environmental protection, printing and dyeing textile, construction, food, new energy, machinery manufacturing, automobile and ship repair, casting, painting, and other fields.



| OrderNO. | Description             | Package |
|----------|-------------------------|---------|
| EW2007-V | Vertical eyewash device | 1Set/Cs |

## DARSUN™ Multi-functional eye washing device

□ Anti-corrosion treatment, stainless steel and ABS coating.

□ Bright yellow ABS coating, coating thickness of 250-300 microns

□ Showerhead 120-180L/min Eyewash nozzle 12L/min

□ Has good resistance to oil, acid, alkali, salt solution performance.

□ Pedal can be added, hand and foot linkage control, more convenient and fast.

□□ Lighting device can be added

Can be added anti-freezing evacuation device, electric heating device

□ Widely used in petroleum, chemical industry, electronics, electric power, electroplating, paper making, semiconductor, environmental protection, printing and dyeing textile, construction, food, new energy, machinery manufacturing, automobile and ship repair, casting, spray paint, and other fields.



| OrderNO. | Description | Package |
|----------|-------------|---------|
| EW2007-C |             | 1Set/Cs |

# Darsun Membrane Filter Series



**Applications:** Routine filtration, chromatography sample filtration, environmental monitoring and analysis, gas filtration, biological liquid clarification or sterilization filtration



## DARSUN™ Microporous filtration membrane

Available microporous filtration membranes include: polyether sulfone membrane (PES), mixed cellulose membrane (MCE), Nylon (Nylon), polyvinylidene fluoride membrane (PVDF), polytetrafluoroethylene membrane (PTFE), polypropylene membrane (PP), glass fiber membrane (GF), cellulose acetate membrane (CA), cellulose nitrate membrane (NC), etc. Diameter 13mm~293mm, aperture 0.1μm~10μm, etc., at the same time can be customized according to user needs of other specifications of the disc film.

In particular, 0.7μm/1.0μm/1.2μm/1.6μm/2.7μm glass fiber membrane has a wider range of applications in kit production, DNA adsorption and purification, food industry and protein precipitation.

High porosity

High flow rate

High purity

High strength

Diversification of membrane size



## DARSUN™ Cellulose acetate filter membrane (CA filter membrane)

- Made of pure cellulose acetate, it is ideal for biological sample preparation, clinical analysis, sterility testing and scintillation count testing.
- The protein adsorption of cellulose acetate is extremely low
- Naturally hydrophilic, suitable for aqueous solution and alcohol medium
- Compared with ordinary vinegar fiber membrane, it has higher solvent resistance, especially to low molecular alcohols
- Improved thermal stability and physical strength, can withstand 180°C high temperature
- Suitable for all sterilization methods without damaging the integrity of the membrane



| Order NO. | Description                     | Package    |
|-----------|---------------------------------|------------|
| CA13-022  | Diameter 13mm; Pore size 0.22μm | 200Pcs/PK  |
| CA13-045  | Diameter 13mm; Pore size 0.45μm | 200Pcs/PK  |
| CA25-022  | Diameter 25mm; Pore size 0.22μm | 50Pcs/PK;  |
| CA25-045  | Diameter 25mm; Pore size 0.45μm | 100Pcs/Box |
| CA47-022  | Diameter 47mm; Pore size 0.22μm | 50Pcs/PK;  |
| CA47-045  | Diameter 47mm; Pore size 0.45μm | 100Pcs/Box |
| CA50-022  | Diameter 50mm; Pore size 0.22μm | 50Pcs/PK;  |
| CA50-045  | Diameter 50mm; Pore size 0.45μm | 100Pcs/Box |
| CA90-022  | Diameter 90mm; Pore size 0.22μm | 50Pcs/PK;  |
|           |                                 | 100Pcs/Box |



|               |                                        |         |
|---------------|----------------------------------------|---------|
| CA90-045      | Diameter 90mm;Pore size 0.45um         | 50Pcs/P |
| CA 1 4 2 -022 | Diameter 142mm;Pore size               | K       |
| CA142-045     | 0.22um Diameter 142mm;Pore size 0.45um | 50Pcs/P |
|               |                                        | K       |
|               |                                        | 50Pcs/P |
|               |                                        | K       |

## DARSUN™ Nitrocellulose filter membrane (NC filter membrane)

Nitrocellulose membranes (NC membranes) are used in most everyday applications and are produced under strictly controlled conditions. DARSUN™ nitrocellulose membranes ensure a very narrow pore size distribution and extremely low extraction dissolution levels, with excellent biocompatibility, increased strength and flexibility, all of which can benefit the end user.

The nitrocellulose membrane is more robust and can maintain the integrity of the membrane itself during the whole process of picking, loading and sterilization

Maintained good integrity after sterilization at 121°C

Fold shrinkage is low

Accurate aperture distribution improves surface capture and analysis

Low level of dissolution ensures sample integrity

Sample preparation, water quality analysis, food and beverage quality control, aqueous filtration, bactericidal filtration, mycoplasma removal



| Order NO. | Description                      | Package             |
|-----------|----------------------------------|---------------------|
| NC13-022  | Diameter 13mm; Pore size 0.22um  | 200Pcs/PK           |
| NC13-045  | Diameter 13mm; Pore size 0.45um  | 200Pcs/PK           |
| NC25-022  | Diameter 25mm; Pore size 0.22um  | 50Pcs/PK;           |
| NC25-045  | Diameter 25mm; Pore size 0.45um  | 100Pcs/Box          |
| NC47-022  | Diameter 47mm; Pore size 0.22um  | 50Pcs/PK;           |
| NC47-045  | Diameter 47mm; Pore size 0.45um  | 100Pcs/Box          |
| NC50-022  | Diameter 50mm; Pore size 0.22um  | 50Pcs/PK;           |
| NC50-045  | Diameter 50mm; Pore size 0.45um  | 100Pcs/Box          |
| NC90-022  | Diameter 90mm; Pore size 0.22um  | 50Pcs/PK;           |
| NC90-045  | Diameter 90mm; Pore size 0.45um  | 100Pcs/Box          |
| NC142-022 | Diameter 142mm; Pore size 0.22um | 50Pcs/PK;           |
| NC142-045 | Diameter 142mm; Pore size 0.45um | 100Pcs/Box          |
|           |                                  | 50Pcs/PK;           |
|           |                                  | 100Pcs/Box 50Pcs/PK |
|           |                                  | 50Pcs/PK            |

## DARSUN™ Mixed cellulose ester filter membrane (MCE filter membrane)

The mixed cellulose ester film was made of cellulose nitrate (NC) and cellulose acetate (CA). Compared with the pure nitrate cellulose film, the mixed cellulose film has better flatness and uniformity, providing better contrast for the detection of particles and microorganisms, and reducing eye fatigue. Mixed cellulose membranes are very effective in applications that require higher flow rates and larger filtration capacities.

- Strong contrast, easy particle detection
- The filter membrane provides a high internal surface area and is suitable for products with higher adsorption power
- Higher load capacity, good thermal stability
- Biological inertia, good thermal stability
- No surfactant, will not contaminate the sample
- The uniform membrane microporous structure increases the flow rate
- It is used in cytology, sample preparation, bacterial biology research, particle counting, yeast/mold and E. coli counting



| Order NO.  | Description                            | Package    |
|------------|----------------------------------------|------------|
| MCE13-022  | Diameter 13mm;Pore size 0.22um         | 200Pcs/PK  |
| MCE13-045  | Diameter 13mm;Pore size 0.45um         | 200Pcs/PK  |
| MCE25-022  | Diameter 25mm;Pore size 0.22um         | 50Pcs/PK;  |
| MCE25-045  | Diameter 25mm;Pore size 0.45um         | 100Pcs/Box |
| MCE47-022  | Diameter 47mm;Pore size 0.22um         | 50Pcs/PK;  |
| MCE47-045  | Diameter 47mm;Pore size 0.45um         | 100Pcs/Box |
| MCE50-022  | Diameter 50mm;Pore size 0.22um         | 50Pcs/PK;  |
| MCE50-045  | Diameter 50mm;Pore size 0.45um         | 100Pcs/Box |
| MCE90-022  | Diameter 90mm;Pore size 0.22um         | 50Pcs/PK;  |
| MCE90-045  | Diameter 90mm;Pore size 0.45um         | 100Pcs/Box |
| MCE142-022 | Diameter 142mm;Pore size               | 50Pcs/PK;  |
| MCE142-045 | 0.22um Diameter 142mm;Pore size 0.45um | 100Pcs/Box |

50Pcs/PK;

100Pcs/Box 50Pcs/PK

50Pcs/PK

### DARSUN™ Polyethersulfone membrane (PES membrane)

Polyethersulfonemembrane(PESmembrane)hasnaturalhydrophilicity.Comparedwithothermembranevarieties,PES

membranehasverygoodwaterwetness,sopolyethersulfonemembrane(PESmembrane)hashighwaterflux.PESmembrane

showed very low protein adsorption capacity and was widely used in food, medicine and other fields.

□ Asymmetricmembraneporestructure, withhigherwaterflux

□ □ Highstrength, highflowrate,pH:2-12

□ Loweluatelandlowproteinadsorption

Particle retention rate:>99.99%

□ Canbeautoclavedathightemperature

□ Canhavegood high temperatureresistance andacid-proof alkaline



| OrderNO.   | Description                     | Package    |
|------------|---------------------------------|------------|
| PES13-022  | Diameter13mm;Poresize0.22um     | 200Pcs/PK  |
| PES13-045  | Diameter13mm;Poresize0.45um     | 200Pcs/PK  |
| PES25-022  | Diameter25mm;Poresize0.22um     | 50Pcs/PK;  |
| PES25-045  | Diameter25mm;Poresize0.45um     | 100Pcs/Box |
| PES47-022  | Diameter47mm;Poresize0.22um     | 50Pcs/PK;  |
| PES47-045  | Diameter47mm;Poresize0.45um     | 100Pcs/Box |
| PES50-022  | Diameter50mm;Poresize0.22um     | 50Pcs/PK;  |
| PES50-045  | Diameter50mm;Poresize0.45um     | 100Pcs/Box |
| PES90-022  | Diameter90mm;Poresize0.22um     | 50Pcs/PK;  |
| PES90-045  | Diameter90mm;Poresize0.45um     | 100Pcs/Box |
| PES142-022 | Diameter 142mm;Pore size 0.22um | 50Pcs/PK;  |
| PES142-045 | Diameter 142mm;Pore size 0.45um | 100Pcs/Box |

50Pcs/PK;

100Pcs/Box 50Pcs/PK

50Pcs/PK

50Pcs/PK

50Pcs/PK

## DARSUN™ Nylon membrane (Nylon membrane)

High quality Nylon membrane (Nylon membrane) is suitable for filtering aqueous solutions and most organic solutions, widely used in biological sample preparation and filtration of other membranes are not suitable or difficult to use. Nylon film (Nylon film) has good hydrophilicity and no wetting agent, because any microporous filter film containing wetting agent will be extracted in the filtration of aqueous solution or organic solvent and pollute the sample

□ Good flexibility, durability, tear resistance

□ It can be sterilized at 135°C

□ High protein binding, suitable for protein-free aqueous solution and organic solution, alcohol and DMSO resistance, pH: 2-13

□ For filtration of aqueous and organic mobile phases, vacuum pump degassing, tissue media, microbial media, buffer solution and solution filtration

| Order NO.   | Description                      | Package    |
|-------------|----------------------------------|------------|
| NY6613-022  | Diameter 13mm; Pore size 0.22um  | 200Pcs/PK  |
| NY6613-045  | Diameter 13mm; Pore size 0.45um  | 200Pcs/PK  |
| NY6625-022  | Diameter 25mm; Pore size 0.22um  | 50Pcs/PK;  |
| NY6625-045  | Diameter 25mm; Pore size 0.45um  | 100Pcs/Box |
| NY6647-022  | Diameter 47mm; Pore size 0.22um  | 50Pcs/PK;  |
| NY6647-045  | Diameter 47mm; Pore size 0.45um  | 100Pcs/Box |
| NY6650-022  | Diameter 50mm; Pore size 0.22um  | 50Pcs/PK;  |
| NY6650-045  | Diameter 50mm; Pore size 0.45um  | 100Pcs/Box |
| NY6690-022  | Diameter 90mm; Pore size 0.22um  | 50Pcs/PK;  |
| NY6690-045  | Diameter 90mm; Pore size 0.45um  | 100Pcs/Box |
| NY66142-022 | Diameter 142mm; Pore size 0.22um | 50Pcs/PK;  |
| NY66142-045 | Diameter 142mm; Pore size 0.45um | 100Pcs/Box |



50Pcs/PK;  
100Pcs/Box 50Pcs/PK  
50Pcs/PK

## DARSUN™ Polyteflon filter membrane (PTFE filter membrane)

50Pcs/PK

The main application of PTFE filter membrane is to clarify those corrosive agents, organic solvents and strong oxidizing solutions.

Including the preparation of liquid samples before the HPLC machine, to avoid the entry of foreign particles and damage to the chromatographic column, generally using 0.45um aperture. Air and gas sterilization using polytetrafluoroethylene membrane (PTFE film) hydrophobic, blocking gaseous water, usually use 0.2um and 0.45um pore size, online sterilization application must use 0.2um pore size. The use of 0.2um polytetrafluoroethylene membrane (PTFE membrane) is required for multi-head vacuuming units, fermenters and sterile respirators for sterile filtration tubes and containers.

□ The chemical stability and inertness of polytetrafluoroethylene filter membrane (PTFE filter membrane) make it suitable for highly corrosive organic solvents, strong acids and strong bases

□ Polytetrafluoroethylene (PTFE) filter membrane is also very suitable for HPLC sample preparation

□ Its natural hydrophobicity is also ideal for air and gas sterilization

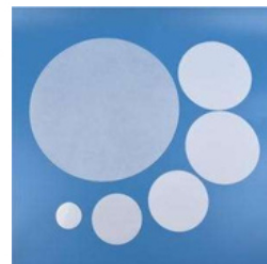
□ Can be used at temperatures up to 120°C



□ The hydrophobic polytetrafluoroethylene filter membrane (PTFE filter membrane) can effectively block gaseous water and aerosol

□ Suitable for the filtration of strong corrosive solutions, organic solutions and gases, pH: 1-14

| Order NO.    | Description                                   | Package             |
|--------------|-----------------------------------------------|---------------------|
| PTFE13-022   | Diameter 13mm; Pore size 0.22µm; hydrophilic  | 200Pcs/PK           |
| PTFE13-045   | Diameter 13mm; Pore size 0.45µm; hydrophilic  | 200Pcs/PK           |
| PTFE25-022   | Diameter 25mm; Pore size 0.22µm; hydrophilic  | 50Pcs/PK;           |
| PTFE25-045   | Diameter 25mm; Pore size 0.45µm; hydrophilic  | 100Pcs/Box          |
| PTFE47-022   | Diameter 47mm; Pore size 0.22µm; hydrophilic  | 50Pcs/PK;           |
| PTFE47-045   | Diameter 47mm; Pore size 0.45µm; hydrophilic  | 100Pcs/Box          |
| PTFE50-022   | Diameter 50mm; Pore size 0.22µm; hydrophilic  | 50Pcs/PK;           |
| PTFE50-045   | Diameter 50mm; Pore size 0.45µm; hydrophilic  | 100Pcs/Box          |
| PTFE90-022   | Diameter 90mm; Pore size 0.22µm; hydrophilic  | 50Pcs/PK;           |
| PTFE90-045   | Diameter 90mm; Pore size 0.45µm; hydrophilic  | 100Pcs/Box          |
| PTFE142-022  | Diameter 142mm; Pore size 0.22µm; hydrophilic | 50Pcs/PK;           |
| PTFE142-045  | Diameter 142mm; Pore size 0.45µm; hydrophilic | 100Pcs/Box          |
| PTFE13-022W  | Diameter 13mm; Pore size 0.22µm; hydrophobic  | 50Pcs/PK;           |
| PTFE13-045W  | Diameter 13mm; Pore size 0.45µm; hydrophobic  | 100Pcs/Box 50Pcs/PK |
| PTFE25-022W  | Diameter 25mm; Pore size 0.22µm; hydrophobic  | 50Pcs/PK            |
| PTFE25-045W  | Diameter 25mm; Pore size 0.45µm; hydrophobic  | 50Pcs/PK            |
| PTFE47-022W  | Diameter 47mm; Pore size 0.22µm; hydrophobic  | 50Pcs/PK            |
| PTFE47-045W  | Diameter 47mm; Pore size 0.45µm; hydrophobic  | 200Pcs/PK           |
| PTFE50-022W  | Diameter 50mm; Pore size 0.22µm; hydrophobic  | 200Pcs/PK           |
| PTFE50-045W  | Diameter 50mm; Pore size 0.45µm; hydrophobic  | 50Pcs/PK;           |
| PTFE90-022W  | Diameter 90mm; Pore size 0.22µm; hydrophobic  | 100Pcs/Box          |
| PTFE90-045W  | Diameter 90mm; Pore size 0.45µm; hydrophobic  | 50Pcs/PK;           |
| PTFE142-022W | Diameter 142mm; Pore size 0.22µm; hydrophobic | 100Pcs/Box          |
| PTFE142-045W | Diameter 142mm; Pore size 0.45µm; hydrophobic | 50Pcs/PK;           |



100Pcs/Box  
50Pcs/PK;  
100Pcs/Box  
50Pcs/PK;  
100Pcs/Box  
50Pcs/PK;  
100Pcs/Box 50Pcs/PK  
50Pcs/PK  
50Pcs/PK  
50Pcs/PK

## DARSUN™ Poly (vinylidene fluoride) Filter membrane (PVDF filter membrane)

Lowproteinbinding,suitableforgeneralbiologicalfiltration,notsuitableforfiltrationofstrongcorrosiveliquids,cannottolerate acetone, DMSO, THF, DMF, dichloromethane, chloroform, etc

- Highmechanicalstrengthandtenacity
- Highwearresistance
- Highpermeabilityresistancetogasesandliquids
- Thermalstabilityisgood
- Highwearresistance
- Havingbothrigidandflexibleforms
- ResistancetoUVandnuclearradiation
- Impactresistance,highweatherresistance
- Bothhydrophilic and hydrophobic filtermembranesareprovided
- ResistanttomostchemicalsandsolventspH:2-12

| OrderNO.         | Description                                        |  |
|------------------|----------------------------------------------------|--|
| PVDF13-022       | Diameter13mm;Poresize0.22um; hydrophilic 50Pcs/PK  |  |
| PVDF13-045       | Diameter13mm;Poresize0.45um; hydrophilic 50Pcs/PK  |  |
| PVDF25-022       | Diameter25mm;Poresize0.22um; hydrophilic 50Pcs/PK  |  |
| PVDF25-045       | Diameter25mm;Poresize0.45um; hydrophilic 50Pcs/PK  |  |
| PVDF47-022       | Diameter47mm;Poresize0.22um; hydrophilic 50Pcs/PK  |  |
| PVDF47-045       | Diameter47mm;Poresize0.45um; hydrophilic 50Pcs/PK  |  |
| PVDF50-022       | Diameter50mm;Poresize0.22um; hydrophilic 50Pcs/PK  |  |
| PVDF50-045       | Diameter50mm;Poresize0.45um; hydrophilic 50Pcs/PK  |  |
| PVDF90-022       | Diameter90mm;Poresize0.22um; hydrophilic 50Pcs/PK  |  |
| PVDF90-045       | Diameter90mm;Poresize0.45um; hydrophilic 50Pcs/PK  |  |
| PVDF142-022      | Diameter142mm;Poresize0.22um; hydrophilic 50Pcs/PK |  |
| PVDF142-045      | Diameter142mm;Poresize0.45um; hydrophilic 50Pcs/PK |  |
| PVDF13-022W      | Diameter13mm;Poresize0.22um; hydrophobic 50Pcs/PK  |  |
| PVDF13-045W      | Diameter13mm;Poresize0.45um; hydrophobic 50Pcs/PK  |  |
| PVDF25-022W      | Diameter25mm;Poresize0.22um; hydrophobic 50Pcs/PK  |  |
| PVDF25-045W      | Diameter25mm;Poresize0.45um; hydrophobic 50Pcs/PK  |  |
| PVDF47-022W      | Diameter47mm;Poresize0.22um; hydrophobic 50Pcs/PK  |  |
| PVDF47-045W      | Diameter47mm;Poresize0.45um; hydrophobic 50Pcs/PK  |  |
| PVDF50-022W      | Diameter50mm;Poresize0.22um; hydrophobic 50Pcs/PK  |  |
| PVDF50-045W      | Diameter50mm;Poresize0.45um; hydrophobic 50Pcs/PK  |  |
| PVDF90-022W      | Diameter90mm;Poresize0.22um; hydrophobic 50Pcs/PK  |  |
| PVDF90-045W      | Diameter90mm;Poresize0.45um; hydrophobic 50Pcs/PK  |  |
| PVDF142-022<br>W | Diameter142mm;Poresize0.22um; hydrophobic 50Pcs/PK |  |
| PVDF142-045<br>W | Diameter142mm;Poresize0.45um; hydrophobic 50Pcs/PK |  |



## DARSUN™ Polypropylene filter membrane (PP filter membrane)

Polypropylene filter membrane is made of polypropylene microfiber hot melt adhesion together, is a kind of membrane material belonging to deep filtration.

- Non-toxic, can be widely used in medicine, chemical, food, beverage and other fields
- Excellent chemical resistance, it can resist acid, alkali, solvent, including polar solvent (except benzene xylene)
- High temperature resistance, can be 121°C, 30 minutes hot pressing disinfection, working temperature below 100°C
- Good strength, no deformation, no media fall off, no re-pollution
- Low resistance, fast flow
- Polypropylene filter membrane is hydrophobic, especially for gas filtration

| OrderNO.  | Description                      | Package    |
|-----------|----------------------------------|------------|
| PP13-022  | Diameter 13mm; Pore size 0.22um  | 200Pcs/PK  |
| PP13-045  | Diameter 13mm; Pore size 0.45um  | 200Pcs/PK  |
| PP25-022  | Diameter 25mm; Pore size 0.22um  | 50Pcs/PK;  |
| PP25-045  | Diameter 25mm; Pore size 0.45um  | 100Pcs/Box |
| PP47-022  | Diameter 47mm; Pore size 0.22um  | 50Pcs/PK;  |
| PP47-045  | Diameter 47mm; Pore size 0.45um  | 100Pcs/Box |
| PP50-022  | Diameter 50mm; Pore size 0.22um  | 50Pcs/PK;  |
| PP50-045  | Diameter 50mm; Pore size 0.45um  | 100Pcs/Box |
| PP90-022  | Diameter 90mm; Pore size 0.22um  | 50Pcs/PK;  |
| PP90-045  | Diameter 90mm; Pore size 0.45um  | 100Pcs/Box |
| PP142-022 | Diameter 142mm; Pore size 0.22um | 50Pcs/PK;  |
| PP142-045 | Diameter 142mm; Pore size 0.45um | 100Pcs/Box |



## DARSUN™ Polycarbonate filter membrane (PC filter membrane)

Polycarbonate membrane is hydrophilic, high chemical cleanliness, no impurities, low water adsorption performance, non-specific protein binding level is low.

- It does not adhere to the stain and has a large optical contrast, which is conducive to the observation under the microscope
- True surface interception allows easy sample determination and shorter analysis time
- There are completely transparent track etched films to choose from
- Low adsorption, filtrate adsorption amount is negligible, no moisture absorption
- No crumbs, filtrate cleanliness is high
- Biological inertia

| OrderNO. | Description                    | Package    |
|----------|--------------------------------|------------|
| PC25-001 | Diameter 25mm; Pore size 0.1um | 100Pcs/Box |
| PC25-002 | Diameter 25mm; Pore size 0.2um | 50Pcs/PK;  |
| PC25-004 | Diameter 25mm; Pore size 0.4um | 100Pcs/Box |
| PC25-010 | Diameter 25mm; Pore size 1um   | 50Pcs/PK;  |
| PC25-020 | Diameter 25mm; Pore size 2um   | 100Pcs/Box |
| PC25-030 | Diameter 25mm; Pore size 3um   | 50Pcs/PK;  |
| PC25-050 | Diameter 25mm; Pore size 5um   | 100Pcs/Box |
| PC25-080 | Diameter 25mm; Pore size 8um   | 50Pcs/PK;  |





|          |                               |            |
|----------|-------------------------------|------------|
| PC 4 7-  | Diameter 47mm;Pore size 0.1um | 50Pcs/PK;  |
| 001 PC 4 | Diameter 47mm;Pore size 0.2um | 100Pcs/Box |
| 7-002 PC | Diameter 47mm;Pore size 0.4um | 50Pcs/PK;  |
| 4 7-004  | Diameter 47mm;Pore size 1um   | 100Pcs/Box |
| PC 4 7-  | Diameter 47mm;Pore size 2um   | 50Pcs/PK;  |
| 010 PC 4 | Diameter 47mm;Pore size 3um   | 100Pcs/Box |
| 7-020 PC | Diameter 47mm;Pore size 5um   | 50Pcs/PK;  |
| 4 7-030  | Diameter 47mm;Pore size 8um   | 100Pcs/Box |

50Pcs/PK;  
100Pcs/Box  
50Pcs/PK;  
100Pcs/Box  
50Pcs/PK;  
100Pcs/Box  
50Pcs/PK;  
100Pcs/Box

## DARSUN™ Glass fiber filter membrane (GF filter membrane)

Glass microfiber filter paper is made of 100% borosilicate glass and is divided into two types: adhesive and non-adhesive. Fast flow rate and high load. Very fine particles can be trapped down to the submicron range. Can withstand high temperature up to 550°C. Ideal for air filtration and gravimetric analysis of volatile substances after burning. Glass microfiber filter paper has a capillary structure, which can absorb more liquid than the equivalent cellulose filter paper, making it suitable for spot testing and liquid flash counting methods. The filter paper can be made completely transparent for subsequent microscopic observation.

GF/F: 0.7µm Non-adhesive glass microfiber filter membrane

Can intercept 0.7µm particles. It has very fast flow rate and very high load capacity. It meets the strict requirements of EPA for the filter particle retention size of 0.6-0.8µm and the structure of pure borosilicate glass. It is also used for DNA binding and purification. Very effective in filtering protein precipitation, GF/F is used in combination with GF/D to clarify biochemical solutions and nucleic acids that are extremely difficult to filter.

GF/B: 1.0µm Non-adhesive glass microfiber filter membrane

With high wet strength and high load characteristics. Good retention of small particles, fast flow rate. Suitable for liquid clarification or solid quantitative analysis of turbid particle suspensions. It can be used as a fine interception membrane, prefiltration membrane, and can also be used in liquid scintillation counting (LSC) technology.

GF/C: 1.2µm Non-adhesive glass microfiber filter membrane

Fine particulate matter has good retention and fast flow rate. Standard glass fiber filter paper for the detection of total suspended solids in drinking water, natural and industrial wastewater. It can quickly and efficiently clarify small particulate water liquids. Detection of total suspended solids (TSS) and total dissolved solids (TDS) in water. It is also used in the field of cell harvesting, LSC and affinity analysis with high load requirements on the filter membrane.



GF/A: 1.6µm Non-adhesive glass microfiber filter membrane

Fine particles have good retention, fast flow speed and high load capacity. It can be used for efficient filtration in the laboratory, such as wastewater filtration in industrial wastewater monitoring, algal and bacterial cultures, food analysis, protein filtration, and radioimmunoassays for weak beta rays. Recommended for gravimetric determination of airborne particles, smoke sampling and adsorption monitoring of atmospheric pollution.

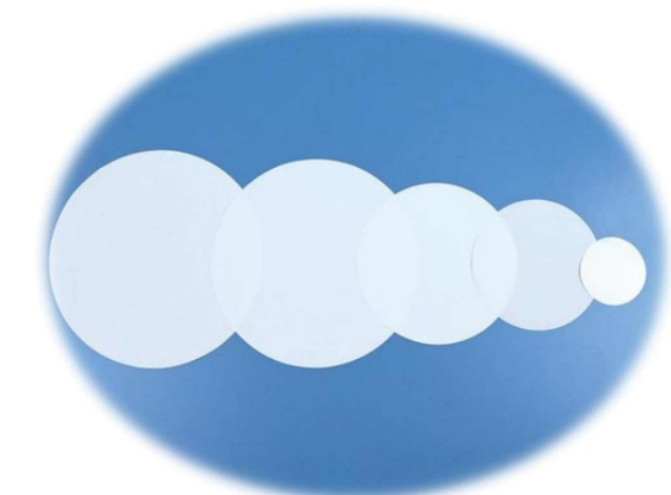
GF/D: 2.7µm Non-adhesive glass microfiber filter membrane

Faster flow rate and overall filtration speed. The filter paper is very thick and has a high load capacity. As a filter membrane pre-filter membrane, it can effectively extend the service life of the filter membrane with small aperture. When combined with GF/F, GF/B,

GF/C, GF/A, efficient gradient prefiltration membranes can be formed.

GF/10 Glass microfiber filter membrane with adhesive

Used for infrared weighing and automatic air filtration device in the roller filter membrane.



| Grade | Pore size | Thickness | Resistance temperature | Velocity of flow |
|-------|-----------|-----------|------------------------|------------------|
| GF/F  | 0.7µm     | 420µm     | 550°C                  | 41ml/min         |
| GF/B  | 1.0µm     | 675µm     | 550°C                  | 81ml/min         |
| GF/C  | 1.2µm     | 260µm     | 550°C                  | 105ml/min        |
| GF/A  | 1.6µm     | 260µm     | 550°C                  | 143ml/min        |
| GF/D  | 2.7µm     | 675µm     | 550°C                  | 681ml/min        |
| GF/10 | —         | 350µm     | 180°C                  | Medium speed     |

| Order NO.   | Description                         | Package 50Pcs/PK;   |
|-------------|-------------------------------------|---------------------|
| GF25-007    | Diameter 25mm;Pore size 0.7um       | 100Pcs/Box          |
| GF25-010    | Diameter 25mm;Pore size 1um         | 50Pcs/PK;           |
| GF25-012    | Diameter 25mm;Pore size 1.2um       | 100Pcs/Box          |
| GF25-016    | Diameter 25mm;Pore size 1.6um       | 50Pcs/PK;           |
| GF25-027    | Diameter 25mm;Pore size 2.7um       | 100Pcs/Box          |
| GF25-100    | GF/10 Diameter 25mm                 | 50Pcs/PK;           |
| G F 4 7-007 | GF/F Diameter 47mm;Pore size 0.7um  | 100Pcs/Box          |
| G F 4 7-010 | GF/B Diameter 47mm;Pore size 1um    | 50Pcs/PK;           |
| G F 4 7-012 | GF/C Diameter 47mm;Pore size 1.2um  | 100Pcs/Box          |
| G F 4 7-016 | GF/A Diameter 47mm;Pore size 1.6um  | 50Pcs/PK;           |
| G F 4 7-027 | GF/D Diameter 47mm;Pore size 2.7um  | 100Pcs/Box          |
| G F 4 7-100 | GF/10 Diameter 47mm                 | 50Pcs/PK;           |
| GF90-007    | GF/FDiameter90mm;Poresize0.7um      | 100Pcs/Box          |
| GF90-010    | GF/B Diameter 90mm;Pore size 1um    | 50Pcs/PK;           |
| GF90-012    | GF/C Diameter 90mm;Pore size 1.2um  | 100Pcs/Box          |
| GF90-016    | GF/A Diameter 90mm;Pore size 1.6um  | 50Pcs/PK;           |
| GF90-027    | GF/D Diameter 90mm;Pore size 2.7um  | 100Pcs/Box          |
| GF90-100    | GF/10 Diameter 90mm                 | 50Pcs/PK;           |
| GF110-007   | GF/F Diameter 110mm;Pore size 0.7um | 100Pcs/Box          |
| GF110-010   | GF/B Diameter 110mm;Pore size 1um   | 50Pcs/PK;           |
| GF110-012   | GF/C Diameter 110mm;Pore size 1.2um | 100Pcs/Box          |
| GF110-016   | GF/A Diameter 110mm;Pore size 1.6um | 50Pcs/PK;           |
| GF110-027   | GF/D Diameter 110mm;Pore size 2.7um | 100Pcs/Box 50Pcs/PK |
| GF110-100   | GF/10 Diameter 110mm                | 50Pcs/PK            |
| GF125-007   | GF/FDiameter 125mm;Poresize 0.7um   | 50Pcs/PK            |
| GF125-010   | GF/BDiameter125mm;Poresize1um       | 50Pcs/PK            |
| GF125-012   | GF/C Diameter 125mm;Pore size 1.2um | 50Pcs/PK            |
| GF125-016   | GF/A Diameter 125mm;Pore size 1.6um | 50Pcs/PK            |
| GF125-027   | GF/D Diameter 125mm;Pore size 2.7um | 50Pcs/PK            |
| GF125-100   | GF/10 Diameter 125mm                | 50Pcs/PK            |
| GF142-007   | GF/F Diameter 142mm;Pore size 0.7um | 50Pcs/PK            |
| GF142-010   | GF/BDiameter142mm;Poresize1um       | 50Pcs/PK            |
| GF142-012   | GF/C Diameter 142mm;Pore size 1.2um | 50Pcs/PK            |
| GF142-016   | GF/A Diameter 142mm;Pore size 1.6um | 50Pcs/PK            |
| GF142-027   | GF/D Diameter 142mm;Pore size 2.7um | 50Pcs/PK            |
| GF142-100   | GF/10 Diameter 142mm                | 50Pcs/PK            |
| GF150-007   | GF/FDiameter 150mm;Poresize 0.7um   | 50Pcs/PK            |
| GF150-010   | GF/BDiameter150mm;Poresize1um       | 50Pcs/PK            |
| GF150-012   | GF/C Diameter 150mm;Pore size 1.2um | 50Pcs/PK            |
| GF150-016   | GF/A Diameter 150mm;Pore size 1.6um | 50Pcs/PK            |
| GF150-027   | GF/D Diameter 150mm;Pore size 2.7um | 50Pcs/PK            |
| GF150-100   | GF/10 Diameter 150mm                | 50Pcs/PK            |

50Pcs/PK

50Pcs/PK

50Pcs/PK

50Pcs/PK

50Pcs/PK



## DARSUN™ Non-Sterile Syringe Filter

The Syringe Filter produced by the clean workshop has good consistency between batches, which ensures the quality and use value of the product to the greatest extent from the raw materials and production process, and the filtration effect is first-class. Can provide a variety of filter membrane materials and specifications, can also be developed according to customer needs. At present, the commonly used filter materials are: Nylon (Nylon), polyvinylidene fluoride (PVDF), polytetrafluoroethylene (PTFE), mixed cellulose (MCE), cellulose acetate (CA), polypropylene (PP), polyethersulfone (PES) and so on. Widely used in HPLC, GC and other sample preparation and industrial production laboratory quality detection.

### Features:

Low dissolution

The particle retention rate is higher than 99%

Fast speed

High flux

Threaded interface design

Strong pressure resistance

Optional glass fiber pre-filter for increased throughput



### Typical applications:

Food industry: alcohol, beverage and other terminal filtration

Chromatographic analysis: HPLC/GC sample pretreatment

Ultra pure water terminal filtration

Environmental water sample detection and analysis

Purification of airborne particulates and air sterilization in the fermentation industry

NY (nylon): widely used, water phase, organic phase can be used, alkali and acid resistance, protein binding ability is strong, not recommended for protein containing liquid filtration

PES (polyethersulfone): suitable for aqueous phase, low protein adsorption, suitable for biological medium or serum filtration, filtration speed

CA (cellulose acetate) and MCE (mixed cellulose): Suitable for aqueous phase with narrow pH tolerance range

RC (regenerated cellulose): strong chemical compatibility, but not resistant to strong acids and bases, low protein adsorption

PVDF (polyvinylidene fluoride): strong chemical compatibility, low protein adsorption, but can not filter DMSO

PTFE (polytetrafluoroethylene): hydrophobic membrane filter organic phase, hydrophilic membrane can be used for aqueous phase and organic phase, chemical compatibility is the strongest, almost universal

## DARSUN™ Non-Sterile Syringe Filter

Widely used in gravimetric analysis, microanalysis, colloid separation and sterility test. Also suitable for HPLC, MS, LC-MS and other analytical instrument sample preparation, purification, pre-treatment, preparation of biological products, tissue culture medium, buffer solution and other liquid sample filtration, aggressive solution purification, clarification, filtration of a small number of samples, remove impurities in the sample, precipitation.

- The needle filter is made of polypropylene and can be connected to the syringe
- Fast, convenient and reliable filtration treatment device for small volume samples
- Five filter membrane materials: PTFE, PVDF, PES, NYLON, MCE
- Three diameter specifications
- Three pore sizes: 0.1um, 0.22um, 0.45um

| Filter membrane diameter | Filter area          | Residual volume (ul) | Filtration volume | Withstand pressure |
|--------------------------|----------------------|----------------------|-------------------|--------------------|
| 4mm                      | 0.125cm <sup>2</sup> | 5ul                  | 1ml               | 87PS               |
| 13mm                     | 0.92cm <sup>2</sup>  | 10ul                 | 10ml              | I                  |
| 25mm                     | 2.98cm <sup>2</sup>  | 50ul                 | 100ml             | 87PS               |

I  
87PS  
I

## DARSUN™ 4mm Non-Sterile Syringe Filter

| Order NO. | Description                        | Package           |
|-----------|------------------------------------|-------------------|
| PT04-N022 | PTFE Filter membrane; 4mm; 0.22um  | 100Pcs/Pk;1000Pcs |
| PT04-N045 | PTFE Filter membrane; 4mm; 0.45um  | /Cs               |
| PE04-N022 | PES Filter membrane; 4mm; 0.22um   | 100Pcs/Pk;1000Pcs |
| PE04-N045 | PES Filter membrane; 4mm; 0.45um   | /Cs               |
| NY04-N022 | NYLON Filter membrane; 4mm; 0.22um | 100Pcs/Pk;1000Pcs |
| NY04-N045 | NYLON Filter membrane; 4mm; 0.45um | /Cs               |



100Pcs/Pk;1000Pcs  
/Cs  
100Pcs/Pk;1000Pcs  
/Cs

## DARSUN™ 13mm Non-Sterile Syringe Filter

| Order NO. | Description                         | Package           |
|-----------|-------------------------------------|-------------------|
| PT13-N022 | PTFE Filter membrane; 13mm; 0.22um  | 100Pcs/Pk;1000Pcs |
| PT13-N045 | PTFE Filter membrane; 13mm; 0.45um  | /Cs               |
| PV13-N010 | PVDF Filter membrane; 13mm; 0.1um   | 100Pcs/Pk;1000Pcs |
| PV13-N022 | PVDF Filter membrane; 13mm; 0.22um  | /Cs               |
| PV13-N045 | PVDF Filter membrane; 13mm; 0.45um  | 100Pcs/Pk;1000Pcs |
| PE13-N022 | PES Filter membrane; 13mm; 0.22um   | /Cs               |
| PE13-N045 | PES Filter membrane; 13mm; 0.45um   | 100Pcs/Pk;1000Pcs |
| MC13-N022 | MCE Filter membrane; 13mm; 0.22um   | /Cs               |
| MC13-N045 | MCE Filter membrane; 13mm; 0.45um   | 100Pcs/Pk;1000Pcs |
| NY13-N022 | NYLON Filter membrane; 13mm; 0.22um | /Cs               |
| NY13-N045 | NYLON Filter membrane; 13mm; 0.45um | 100Pcs/Pk;1000Pcs |



100Pcs/Pk;1000Pcs  
/Cs  
100Pcs/Pk;1000Pcs  
/Cs  
100Pcs/Pk;1000Pcs  
/Cs

## DARSUN™ 25mm Non-Sterile Syringe Filter

| Order NO.     | Description                         | Package           |
|---------------|-------------------------------------|-------------------|
| P T 3 0 -N022 | PTFE Filter membrane; 25mm; 0.22um  | 100Pcs/Pk;1000Pcs |
| P T 3 0 -N045 | PTFE Filter membrane; 25mm; 0.45um  | /Cs               |
| PV30-N010     | PVDF Filter membrane; 25mm; 0.1um   | 100Pcs/Pk;1000Pcs |
| PV30-N022     | PVDF Filter membrane; 25mm; 0.22um  | /Cs               |
| PV30-N045     | PVDF Filter membrane; 25mm; 0.45um  | 100Pcs/Pk;1000Pcs |
| PE30-N022     | PES Filter membrane; 25mm; 0.22um   | /Cs               |
| PE30-N045     | PES Filter membrane; 25mm; 0.45um   | 100Pcs/Pk;1000Pcs |
| MC30-N022     | MCE Filter membrane; 25mm; 0.22um   | /Cs               |
| MC30-N045     | MCE Filter membrane; 25mm; 0.45um   | 100Pcs/Pk;1000Pcs |
| NY30-N022     | NYLON Filter membrane; 25mm; 0.22um | /Cs               |
| NY30-N045     | NYLON Filter membrane; 25mm; 0.45um | 100Pcs/Pk;1000Pcs |
|               |                                     | /Cs               |
|               |                                     | 100Pcs/Pk;1000Pcs |
|               |                                     | /Cs               |
|               |                                     | 100Pcs/Pk;1000Pcs |
|               |                                     | /Cs               |
|               |                                     | 100Pcs/Pk;1000Pcs |
|               |                                     | /Cs               |
|               |                                     | 100Pcs/Pk;1000Pcs |
|               |                                     | /Cs               |
|               |                                     | 100Pcs/Pk;1000Pcs |
|               |                                     | /Cs               |





## DARSUN™ Sterile Syringe Filter

Filtration is one of the fastest methods of liquid sterilization and can reduce the impact of the sterilization process on the active ingredients of the liquid. Sterile needle filters are widely used in all areas of the life sciences to decontaminate a variety of biological liquids in small volumes, such as proteins, media, additives, buffers, reagents or pharmaceuticals. Sterile needle filters are ideal sterilizing consumables for life science applications in pharmaceutical, environmental, biotechnology, food & beverage, agriculture and more.



0.1  $\mu\text{m}$  filter is used to remove mycoplasma  
 0.22  $\mu\text{m}$  filter is used to remove all bacteria  
 0.45  $\mu\text{m}$  filter is used to remove particles from the liquid.  
 0.45  $\mu\text{m}$  filter is used to remove particles from the liquid.

### Applications:

Sterilization or clarification of biological liquids  
 Tissue culture medium preparation  
 Protein or enzyme product filtration  
 Hybridization buffer  
 Gas aqueous solution

## DARSUN™ Sterile Syringe Filter

Used for various biological liquid filtration, sterilization or clarification. DARSUN PES membranes, in particular, have excellent flow rates, fluxes, and extremely low protein binding rates, making them ideal for handling a wide range of bioaqueous liquids. Single-use, γ-ray pre-sterilization, bactericidal filtration efficiency (0.22 μm): LRV > 7 deficient *Shortwave monomonas*, ATCC 19146, ASTM Bacterial Challenge test

Non-pyrogen, no surfactant, very low extract, very low protein binding < 1.5% (PES)

Ultra-high flow rates and fluxes filter liquids faster and more!

## DARSUN™ 13mm Sterile Syringe Filter

| Order NO. | Description                                     | Package            |
|-----------|-------------------------------------------------|--------------------|
| PT13-022  | PTFE Filter membrane; 13mm; 0.22 μm hydrophilic | 100Pcs/Pk; 1000Pcs |
| PT13-045  | PTFE Filter membrane; 13mm; 0.45 μm hydrophilic | /Cs                |
| PV13-010  | PVDF Filter membrane; 13mm; 0.1 μm hydrophilic  | 100Pcs/Pk; 1000Pcs |
| PV13-022  | PVDF Filter membrane; 13mm; 0.22 μm hydrophilic | /Cs                |
| PV13-045  | PVDF Filter membrane; 13mm; 0.45 μm hydrophilic | 100Pcs/Pk; 1000Pcs |
| PT13-022W | PTFE Filter membrane; 13mm; 0.22 μm hydrophobic | /Cs                |
| PT13-045W | PTFE Filter membrane; 13mm; 0.45 μm hydrophobic | 100Pcs/Pk; 1000Pcs |
| PV13-010W | PVDF Filter membrane; 13mm; 0.1 μm hydrophobic  | /Cs                |
| PV13-022W | PVDF Filter membrane; 13mm; 0.22 μm hydrophobic | 100Pcs/Pk; 1000Pcs |
| PV13-045W | PVDF Filter membrane; 13mm; 0.45 μm hydrophobic | /Cs                |
| PE13-022  | PES Filter membrane; 13mm; 0.22 μm              | 100Pcs/Pk; 1000Pcs |
| PE13-045  | PES Filter membrane; 13mm; 0.45 μm              | /Cs                |
| MC13-022  | MCE Filter membrane; 13mm; 0.22 μm              | 100Pcs/Pk; 1000Pcs |
| MC13-045  | MCE Filter membrane; 13mm; 0.45 μm              | /Cs                |
| NY13-022  | NYLON Filter membrane; 13mm; 0.22 μm            | 100Pcs/Pk; 1000Pcs |
| NY13-045  | NYLON Filter membrane; 13mm; 0.45 μm            | /Cs                |



## DARSUN™ 25mm Sterile Syringe Filter

| Order NO. | Description                                     | Package            |
|-----------|-------------------------------------------------|--------------------|
| PT25-022  | PTFE Filter membrane; 25mm; 0.22 μm hydrophilic | 100Pcs/Pk; 1000Pcs |
| PT25-045  | PTFE Filter membrane; 25mm; 0.45 μm hydrophilic | /Cs                |
| PV25-010  | PVDF Filter membrane; 25mm; 0.1 μm hydrophilic  | 50Pcs/Pk; 500Pcs   |
| PV25-022  | PVDF Filter membrane; 25mm; 0.22 μm hydrophilic | 100Pcs/Pk; 1000Pcs |
| PV25-045  | PVDF Filter membrane; 25mm; 0.45 μm hydrophilic | /Cs                |
| PT25-022W | PTFE Filter membrane; 25mm; 0.22 μm hydrophobic | 50Pcs/Pk; 500Pcs   |
| PT25-045W | PTFE Filter membrane; 25mm; 0.45 μm hydrophobic | 100Pcs/Pk; 1000Pcs |
| PV25-010W | PVDF Filter membrane; 25mm; 0.1 μm hydrophobic  | /Cs                |
| PV25-022W | PVDF Filter membrane; 25mm; 0.22 μm hydrophobic | 50Pcs/Pk; 500Pcs   |
| PV25-045W | PVDF Filter membrane; 25mm; 0.45 μm hydrophobic | 100Pcs/Pk; 1000Pcs |
| PE25-022  | PES Filter membrane; 25mm; 0.22 μm              | /Cs                |
| PE25-045  | PES Filter membrane; 25mm; 0.45 μm              | 50Pcs/Pk; 500Pcs   |
| MC25-022  | MCE Filter membrane; 25mm; 0.22 μm              | 100Pcs/Pk; 1000Pcs |
| MC25-045  | MCE Filter membrane; 25mm; 0.45 μm              | /Cs                |
| NY25-022  | NYLON Filter membrane; 25mm; 0.22 μm            | 50Pcs/Pk; 500Pcs   |
| NY25-045  | NYLON Filter membrane; 25mm; 0.45 μm            | /Cs                |



|                      |                                         |                 |
|----------------------|-----------------------------------------|-----------------|
| NY30-045             | NYLON Filter membrane; 25mm; 0.45um     | 50Pcs/Pk;500Pcs |
| PP30-022             | PTFE Filter membrane; 25mm; 0.22um      | /Cs             |
| PP30-045             | hydrophilic PTFE Filter membrane; 25mm; | 50Pcs/Pk;500Pcs |
| DARSUN <sup>TM</sup> | 0.45um hydrophilic                      | /Cs             |
|                      | 33mm Sterile Syringe Filter             | 50Pcs/Pk;500Pcs |

| PT33-022  | Description                                    | /Cs Package     |
|-----------|------------------------------------------------|-----------------|
| PT33-045  | PTFE Filtermembrane; 33mm; 0.22umhydrophilic   | 50Pcs/Pk;500Pcs |
| PV33-010  | PTFE Filtermembrane; 33mm; 0.45umhydrophilic   | /Cs             |
| PV33-022  | PVDF Filter membrane; 33mm; 0.1um hydrophilic  | 50Pcs/Pk;500Pcs |
| PV33-045  | PVDF Filtermembrane; 33mm; 0.22umhydrophilic   | /Cs             |
| PT33-022W | PVDF Filter membrane; 33mm; 0.45um hydrophilic | 50Pcs/Pk;500Pcs |
| PT33-045W | PTFE Filtermembrane; 33mm; 0.22umhydrophobic   | /Cs             |
| PV33-010W | PTFE Filtermembrane; 33mm; 0.45umhydrophobic   | 50Pcs/Pk;500Pcs |
| PV33-022W | PVDF Filter membrane; 33mm; 0.1um hydrophobic  | /Cs             |
| PV33-045W | PVDF Filtermembrane; 33mm; 0.22umhydrophobic   | 50Pcs/Pk;500Pcs |
| PE33-022  | PVDF Filter membrane; 33mm; 0.45um             | /Cs             |
| PE33-045  | hydrophobic PES Filter membrane; 33mm; 0.22um  | 50Pcs/Pk;500Pcs |
| MC33-022  | PES Filter membrane; 33mm; 0.45um              | /Cs             |
| MC33-045  | MCE Filter membrane; 33mm; 0.22um              | 50Pcs/Pk;500Pcs |
| NY33-022  | MCE Filter membrane; 33mm; 0.45um              | /Cs             |
| NY33-045  | NYLON Filter membrane; 33mm; 0.22um            | 50Pcs/Pk;500Pcs |
|           | NYLON Filter membrane; 33mm; 0.45um            | /Cs             |



## DARSUN<sup>TM</sup> Fermenter vent filter

- PTFEfiltermembrane,polypropylene reinforcedmeshandshell,hightemperatureautoclave
- Bubblepoint:0.2μm>140kPa
- Ladderhoseconnector (6-12mm)
- ApplicationfieldSmallfermentertypeair purificationequipment
- Standardflowrateof0.2μmmembranefilteredair:Δp=0.2kPa1.1L/min
- Δp=0.5kPa2.9L/min
- Δp=10kPa5.0L/min

| Order NO.              | Description                            | /Cs             |
|------------------------|----------------------------------------|-----------------|
| 10Pcs/Pk;1Pcs/Pk       | Diameter:60mm;Poresize:0.22um, sterile | 50Pcs/Pk;500Pcs |
| 0.22um 1Pcs/Pk;1Pcs/Pk | Diameter:60mm;Poresize:0.22um, sterile | /Cs             |
|                        |                                        | 50Pcs/Pk;500Pcs |
|                        |                                        | /Cs             |





DARSUN™ Membrane Chemical Tolerance table

| Solvent                          | CA | CN | PC | GMF | NYL | PP | PE | PTF | PVDF |
|----------------------------------|----|----|----|-----|-----|----|----|-----|------|
| Acetic acid 5%                   | M  | S  | S  | S   | S   | S  | SS | ES  | S    |
| Glacial acetic acid              | U  | U  |    | S   | M   | S  | S  | S   | S    |
| Acetone                          | U  | U  | U  | S   | S   | S  | U  | S   | U    |
| acetonitrile                     | U  | U  |    | S   | S   | S  | S  | S   | S    |
| Ammonia, 6N                      |    | U  | U  | M   | S   | S  | SM | S   | M    |
| Amyl acetate                     | U  | U  | S  | S   | S   | S  | U  | S   | M    |
| Pentleaven                       | S  | S  |    | S   | S   | S  | S  | S   | S    |
| Benzene *                        | S  | S  | M  | S   | M   | M  | U  | S   | S    |
| Benzo-leaven *                   | M  | M  | M  | S   | M   | M  |    | S   | S    |
| Boric acid                       | S  | S  | S  | S   | M   | S  |    | S   | S    |
| Tezah                            | S  | S  | S  | S   | S   | S  | S  | S   | S    |
| Butyryl chloride *               |    |    |    | S   | U   | U  |    | S   | S    |
| Carbon tetrachloride *           | U  | S  | M  | S   | M   | M  | S  | S   | S    |
| Chlorobenzene *                  |    | S  |    | S   |     |    | U  | S   | S    |
| Chloroform *                     | U  | S  | U  | S   | U   | M  | U  | S   | S    |
| Citric acid                      |    |    |    | S   | M   |    | S  | S   | S    |
| cresol                           | U  | S  |    | S   | U   | S  | U  | S   | U    |
| cyclohexane                      | S  | S  | S  | S   | S   | S  | S  | S   | S    |
| cyclohexanone                    | U  | U  |    | S   | U   | S  | U  | S   | S    |
| Diethylacetamide                 | S  | U  |    | S   | S   | S  |    | S   | U    |
| Dimethylformamide                | U  | U  |    | S   | S   | S  | U  | S   | U    |
| dioxane                          | U  | U  | U  | S   | S   | S  | M  | S   | M    |
| Dimethyl inkstone                | U  | U  | S  | S   | S   | S  | U  | S   | M    |
| Ethanol                          | U  | U  | S  | S   | S   | S  | S  | S   | S    |
| ether                            | M  | M  | S  | S   | S   | S  | S  | S   | M    |
| Ethyl acetate                    | U  | U  | M  | S   | S   | S  | U  | S   | M    |
| Glycol                           | M  | M  | S  | S   | S   | S  | S  | S   | S    |
| Methanol                         | M  | S  | S  | S   | S   | S  | S  | S   | S    |
| Formic acid                      | M  | M  |    | S   | U   | S  | S  | S   | S    |
| Freon TF                         | S  | S  | S  | S   | S   | S  | S  | S   | S    |
| hexane                           | S  | S  | S  | S   | S   | S  | S  | S   | S    |
| Hydrochloric acid (concentrated) | U  | U  | S  | S   | U   | M  | S  | S   | S    |
| Hydrochloric acid                | U  | U  |    | U   | U   | M  |    | S   | S    |
| isobutanol                       | S  | M  | S  | S   | S   | S  |    | S   | S    |
| Isopropyl alcohol                | S  | M  |    | S   | S   | S  |    | S   | S    |

S - indicates satisfaction

M - indicates not satisfied

U - indicates that it is not satisfied

Note: This chemical tolerance table is for general guidance only. For uncertain factors such as temperature and exposure time, please refer to your actual conditions for testing.

## DARSUN™ Stainless steel disc filter

- DARSUN™ stainless steel disc filters are available in both single and double layer types
- Four sizes available: 100mm, 150mm, 200mm, 300mm
- Made of 316L stainless steel material, acid and alkali resistant
- It has the characteristics of fast filter speed, long service life, reasonable structure and easy to use
- The filter can withstand a maximum pressure of 0.6MPa
- Widely used in colleges and universities, scientific research units, pharmaceutical factories, hospitals and other media, blood products, liquid sterilization or clarification filtration

Note: For flow test, the selected pressure is 0.2MPa, and the pore size of the microporous filter membrane is 0.8μm

| OrderNO.                                        | membrane diameter | inlet diameter | Outlet diameter | Flow rate | height |
|-------------------------------------------------|-------------------|----------------|-----------------|-----------|--------|
| DARSUN Single-layer stainless steel disc filter |                   |                |                 |           |        |
| SSF-100                                         | 100mm             | 7mm            | 7mm             | 80 L/h    | 250mm  |
| SSF-150                                         | 150mm             | 9mm            | 9mm             | 150 L/h   | m      |
| SSF-200                                         | 200mm             | 9mm            | 9mm             | 270 L/h   | 250mm  |
| SSF-300                                         | 300mm             | 12mm           | 12mm            | 600 L/h   | m      |
| DARSUN Double layer stainless steel disc filter |                   |                |                 | m         | 260mm  |
| SSF-100D                                        | 100mm             | 7mm            | 7mm             | 80 L/h    | 270mm  |
| SSF-150D                                        | 150mm             | 9mm            | 9mm             | 150 L/h   | 260mm  |
| SSF-200D                                        | 200mm             | 9mm            | 9mm             | 250 L/h   | 270mm  |
| SSF-300D                                        | 300mm             | 12mm           | 12mm            | 500 L/h   | m      |



## DARSUN™ Stainless steel cylinder filter

Reasonable structure, beautiful appearance of pressurized sterilization filter

Made of 316L stainless steel

Acid and alkali resistance, high surface finish, easy to clean, fast filter speed, durable, easy to use and so on

The filter can withstand a maximum pressure of 0.6MPa

Widely used in colleges and universities, scientific research units, pharmaceutical factories, hospitals and other media, blood products, liquid sterilization or clarification filtration

Note: For flow test, the selected pressure is 0.2MPa, and the pore size of the microporous

Filter membrane is 0.22μm

| OrderNO.   | capacity | membrane diameter | inlet diameter | Outlet diameter | Flowrate |
|------------|----------|-------------------|----------------|-----------------|----------|
| SSF-500C   | 500ml    | 100mm             | 6mm            | 7.8mm           | 0.7L/m   |
| SSF-1000C  | 1000ml   | 100mm             | 6mm            | 7.8mm           | 0.7L/m   |
| SSF-2000C  | 2000ml   | 150mm             | 6mm            | 9mm             | 2.2L/m   |
| SSF-5000C  | 5000ml   | 200mm             | 6mm            | 9mm             | 4L/m     |
| SSF-10000C | 10000ml  | 300mm             | 6mm            | 12mm            | 10L/m钟   |





## DARSUN™ MCX (Mixed-Mode Cation SPE Column) Mixed cationic solid phase extraction column

A mixed adsorbent with strong cation exchange and reverse retention. Highly selective for alkaline analytes, stable in organic solvents. Equivalent to Waters Oasis MCX

Typical applications are: beta-receptor agonists; Sulfamide, trimethoprim, Ulotropine, malachite green; Crystal violet, melamine;

And aconitine limit inspection in Chinese medicine

Average particle size: 50um; Average diameter: 300A; Specific surface area: 600m<sup>2</sup>/g

| Order NO.     | Gram weight of stuffing | Column specifications | Package    |
|---------------|-------------------------|-----------------------|------------|
| MCX-01-30mg   | 30mg                    | 1mL                   | 50 per box |
| MCX-01-60mg   | 60mg                    | 1mL                   | 50 per box |
| MCX-03-30mg   | 30mg                    | 3mL                   | 50 per box |
| MCX-03-60mg   | 60mg                    | 3mL                   | 50 per box |
| MCX-06-150mg  | 150mg                   | 6mL                   | 30 per box |
| MCX-06-200mg  | 200mg                   | 6mL                   | 30 per box |
| MCX-06-500mg  | 500mg                   | 6mL                   | 30 per box |
| MCX-12-500mg  | 500mg                   | 12mL                  | 30 per box |
| MCX-12-1000mg | 1000mg                  | 12mL                  | 20 per box |



## DARSUN WCX weak cationic solid phase extraction column

| Order NO.     | Gram weight of stuffing | Column specification | Package    |
|---------------|-------------------------|----------------------|------------|
| WCX-01-30mg   | 30mg                    | 1mL                  | 50 per box |
| WCX-01-60mg   | 60mg                    | 1mL                  | 50 per box |
| WCX-03-30mg   | 30mg                    | 3mL                  | 50 per box |
| WCX-03-60mg   | 60mg                    | 3mL                  | 50         |
| WCX-06-150mg  | 150mg                   | 6mL                  | PCS/box 30 |
| WCX-06-200mg  | 200mg                   | 6mL                  | per box 30 |
| WCX-06-500mg  | 500mg                   | 6mL                  | per box 30 |
| WCX-12-500mg  | 500mg                   | 12mL                 | per box 30 |
| WCX-12-1000mg | 1000mg                  | 12mL                 | PCS/box 20 |

per box



## DARSUN™ Florisil Solid phase Extraction column (Fluorene silica, magnesium silicate)

Florisil is a highly selective adsorbent. It is composed of silica, magnesium oxide and sodium sulfide. Similar to silica gel, this adsorbent is strongly polar and can extract polar compounds from non-polar solutions. In addition to the separation of organochlorine pesticides, Florisil is also used for the extraction and separation of PCBs, PAHs, etc., and is also mostly used in AOAC and EPA methods. The particle size of Florisil is 100-200 mesh.

Typical applications are: purification of pesticide residues, separation, separation of internal secretions and oil removal. PCBs, PAHs, separation of nitrogen-containing compounds in hydrocarbons and antibiotic substances are essential sample pretreatment columns for NY761 analysis

Average particle size: 45-74μm; Average diameter: 120A; Specific surface area: 700m<sup>2</sup>/g



|                    | Gram weight of stuffing | Column specifications | Package    |
|--------------------|-------------------------|-----------------------|------------|
| Florisil-01-100mg  | 100mg                   | 1mL                   | 50         |
| Florisil-03-200mg  | 200mg                   | 3mL                   | PCS/box 50 |
| Florisil-03-500mg  | 500mg                   | 3mL                   | per box 50 |
| Florisil-06-500mg  | 500mg                   | 6mL                   | per box 30 |
| Florisil-06-1000mg | 1000mg                  | 6mL                   | per box 30 |
| Florisil-12-1000mg | 1000mg                  | 12mL                  | PCS/box 30 |
| Florisil-12-2000mg | 2000mg                  | 12mL                  | per box 20 |

per box

### DARSUN™ MAX Solid phase extraction column (mixed anionic extraction column)

An extraction column based on a water-wettable polymer with an ion exchange mixing mechanism. Dual retention modes are provided: ion exchange and reverse phase retention, and the fillers are stable in the pH 0-14 range. Exchange strength: 0.9 meq/g. PH application range 2-8.

Suitable for rapid essence enrichment of anions, organic acids, nucleic acids, nucleotides, surfactants, etc.

Typical applications are: acid drugs; Oxytetracycline, aureomycin, doxycycline, carboxy, quinoline and their metabolites; Sudan red

**Average particle size: 50-60μm; Average aperture: 300Å; Specific surface area: 600m<sup>2</sup>/g**

| Order NO.     | Gram weight of stuffing | Column size | Package    |
|---------------|-------------------------|-------------|------------|
| MAX-01-30mg   | 30mg                    | 1mL         | 50 per box |
| MAX-01-60mg   | 60mg                    | 1mL         | 50 per box |
| MAX-03-30mg   | 30mg                    | 3mL         | 50 per box |
| MAX-03-60mg   | 60mg                    | 3mL         | 50 per box |
| MAX-06-150mg  | 150mg                   | 6mL         | 30 per box |
| MAX-06-200mg  | 200mg                   | 6mL         | 30 per box |
| MAX-06-500mg  | 500mg                   | 6mL         | 30 per box |
| MAX-12-500mg  | 500mg                   | 12mL        | 30 per box |
| MAX-12-1000mg | 1000mg                  | 12mL        | 20 per box |

### DARSUN™ WAX weak anion extraction

| Order NO.     | Gram weight of stuffing | Column specifications | Package    |
|---------------|-------------------------|-----------------------|------------|
| WAX-01-30mg   | 30mg                    | 1mL                   | 50 per box |
| WAX-01-60mg   | 60mg                    | 1mL                   | 50 per box |
| WAX-03-30mg   | 30mg                    | 3mL                   | 50 per box |
| WAX-03-60mg   | 60mg                    | 3mL                   | 50 per box |
| WAX-06-150mg  | 150mg                   | 6mL                   | 30 per box |
| WAX-06-200mg  | 200mg                   | 6mL                   | 30 per box |
| WAX-06-500mg  | 500mg                   | 6mL                   | 30 per box |
| WAX-12-500mg  | 500mg                   | 12mL                  | 30 per box |
| WAX-12-1000mg | 1000mg                  | 12mL                  | 20 per box |



## DARSUN™ C18 solid phase extraction column

Reversed phase C18 extraction column based on silica gel. It has the characteristics of high bonding density, low loss and high recovery.

Application: Drugs and their metabolites in blood, plasma, urine. Desalting of samples of proteins, DNA macromolecules.

Enrichment of organic matter in environmental water samples. Organic acids in beverages. Similar to reversed phase liquid chromatography column, suitable for extraction and purification of: antibiotics, barbiturate hydrochloric acid, phthalazine, caffeine, drugs, dyes, aromatic oils, fat-soluble vitamins, fungicides, weeder, pesticides, carbohydrates, p-hydroxytoluene substituted esters, phenols, phthalates, steroids, surface active agents, theophylline, water-soluble vitamins, etc.

Average particle size: 50-60µm; Average aperture: 300Å; Specific surface area: 600m<sup>2</sup>/g

| Order NO.     | Gram weight of stuffing | Column specifications | Package    |
|---------------|-------------------------|-----------------------|------------|
| C18-01-100mg  | 100mg                   | 1ml                   | 50 per box |
| C18-01-300mg  | 300mg                   | 1ml                   | 50 per box |
| C18-03-100mg  | 100mg                   | 3ml                   | 50 per box |
| C18-03-200mg  | 200mg                   | 3ml                   | 50 per box |
| C18-03-500mg  | 500mg                   | 3ml                   | 50 per box |
| C18-06-500mg  | 500mg                   | 6ml                   | 30 per box |
| C18-06-1000mg | 1000mg                  | 6ml                   | 30 per box |
| C18-12-1000mg | 1000mg                  | 12ml                  | 30 per box |
| C18-12-2000mg | 2000mg                  | 12ml                  | 20 per box |



## DARSUN™ Silica solid phase extraction column

Polar adsorbents are primarily used to adsorb analytes from non-polar solvents such as hydrocarbon, halogenated hydrocarbons or less polar esters, ethers and then elute them with more polar solvents such as polar ether, ester, alcohol, acetonitrile, water. It can also be used as a medium strength cation exchange adsorbent in water medium, and as a carrier for liquid-liquid partition separation.

Application: vitamins, food additives, lipids, synthetic organic compounds, natural products, plant pigments, pesticides in food.

Average particle size: 60µm; Average diameter: 120Å; Specific surface area: 500m<sup>2</sup>/g

| Order NO.        | Weight of packing | Column specification | Package    |
|------------------|-------------------|----------------------|------------|
| Silica-01-100mg  | 100mg             | s 1mL 3mL            | 50 per box |
| Silica-03-200mg  | 200mg             | 3mL 6mL              | 50 per box |
| Silica-03-500mg  | 500mg             | 6mL 12mL             | 50 per box |
| Silica-06-500mg  | 500mg             | 12mL                 | 30 per box |
| Silica-06-1000mg | 1000mg            |                      | 30 per box |
| Silica-12-1000mg | 1000mg            |                      | 30 per box |
| Silica-12-2000mg | 2000mg            |                      | 20 per box |





## DARSUN™ CN solid phase extraction column

Cyanopolar binding adsorbent, with both polar and non-polar interactions. It can be used as a non-polar adsorbent to extract both polar and non-polar substances from aqueous solution samples, and can also extract polar substances from solvents with relatively little polarity.

Application: Drugs and their metabolites

Average particle size: 60µm; Average diameter: 120Å; Specific surface area: 500m<sup>2</sup>/g

| OrderNO.     | Gramweightof stuffing | Column specifications | Package   |
|--------------|-----------------------|-----------------------|-----------|
| CN-01-100mg  | 100mg                 | 1mL                   | 50per box |
| CN-03-200mg  | 200mg                 | 3mL                   | 50per box |
| CN-03-500mg  | 500mg                 | 3mL                   | 50per box |
| CN-06-500mg  | 500mg                 | 6mL                   | 30per box |
| CN-06-1000mg | 1000mg                | 6mL                   | 30per box |
| CN-12-2000mg | 2000mg                | 12mL                  | 20per box |



## DARSUN™ C8 solid phase extraction column

C8 and C18 have very similar properties, but because the carbon chain is shorter, the retention of non-polar compounds is weaker than C18. When the analyte retention on C18 is too strong for elution, C8 can be used instead. At the same time, because the carbon chain of C8 is short, it is difficult to effectively cover the residual silanol groups on the surface of silica gel, so the retention of polar compounds of C8 is stronger than that of C18, but the polarity interaction still loses the main characteristics of C8. Experiments show that C8 adsorbent can extract both fat-soluble and water-soluble vitamins in human blood.

Average particle size: 50µm; Average diameter: 70Å; Specific surface area: 600m<sup>2</sup>/g

| OrderNO.     | Gramweightof stuffing | Column specifications | Package   |
|--------------|-----------------------|-----------------------|-----------|
| C8-01-100mg  | 100mg                 | 1mL                   | 50per box |
| C8-03-200mg  | 200mg                 | 3mL                   | 50per box |
| C8-03-500mg  | 500mg                 | 3mL                   | 50per box |
| C8-06-500mg  | 500mg                 | 6mL                   | 30per box |
| C8-06-1000mg | 1000mg                | 6mL                   | 30per box |
| C8-12-1000mg | 1000mg                | 12mL                  | 30per box |
| C8-12-2000mg | 2000mg                | 12mL                  | 20per box |



## DARSUN™ GCB Solid Phase Extraction column (graphitized carbon)

Activated carbon has a large adsorption capacity, but the adsorption is irreversible, and the extract is difficult to elute, so it is not suitable as an adsorbent for SPE. Graphitized carbon black overcomes the irreversible shortcomings of activated carbon adsorption, and maintains a high affinity and a large adsorption capacity for polar and non-polar oil-medium substances, with high purification effect, high recovery and high reproducibility and other excellent characteristics, used for agricultural residue analysis and sample pretreatment with high pigment content. In addition, graphitized carbon black is not a porous substance, and the time to achieve adsorption equilibrium is short, which can save the time of sample processing.

Matrix: Graphitized Carbon Shape; Average particle size: 70-120 $\mu$ m; Specific surface area: 100m<sup>2</sup>/g

| Order NO.     | Gram weight of stuffing | Column specifications | Package               |
|---------------|-------------------------|-----------------------|-----------------------|
| GCB-01-100mg  | 100mg                   | 1mL                   | 50 per box            |
| GCB-03-200mg  | 200mg                   | 3mL                   | 50                    |
| GCB-03-500mg  | 500mg                   | 3mL                   | PCS/box 50            |
| GCB-06-500mg  | 500mg                   | 6mL                   | per box 30            |
| GCB-06-1000mg | 1000mg                  | 6mL                   | per box 30            |
| GCB-12-1000mg | 1000mg                  | 12mL                  | per box 30            |
| GCB-12-2000mg | 2000mg                  | 12mL                  | PCS/box 20<br>per box |



## DARSUN PRS Solid Phase Extraction column (strong cation exchange extraction column based on silica gel)

A strong cation exchange extraction column based on silica gel. The bonding functional group is propyl sulfonic acid, slightly less acidic than CSX (benzenesulfonic acid). PRS does not exhibit weak polarity as compared to SCX. In non-polar solvents, PRS has polarity and hydrogen bonding, because of its low pK<sub>a</sub> value, cationic compounds must be eluted by strong ionic strength eluent or neutralize its charge, can be used to extract weak cations, such as pyridine, etc., but also widely used in malachite green sample pretreatment.

Average particle size: 60 $\mu$ m; Average aperture: 500Å; Specific surface area: 480m<sup>2</sup>/g

| Order NO.     | Gram weight of stuffing | Column specifications | Package    |
|---------------|-------------------------|-----------------------|------------|
| PRS-01-100mg  | 100mg                   | 1mL                   | 50 per box |
| PRS-03-200mg  | 200mg                   | 3mL                   | 50 per box |
| PRS-03-500mg  | 500mg                   | 3mL                   | 50 per box |
| PRS-06-500mg  | 500mg                   | 6mL                   | 30 per box |
| PRS-06-1000mg | 1000mg                  | 6mL                   | 30 per box |
| PRS-12-1000mg | 1000mg                  | 12mL                  | 30 per box |
| PRS-12-2000mg | 2000mg                  | 12mL                  | 20 per box |



## DARSUN™ PSA Solid phase extraction column (ethylenediamine-n-propyl)

The selectivity of ethylenediamine-n-propyl is similar to that of amino, as a positive or reversed phase column, the polarity is stronger than C18 and weaker than silica gel, and it has good selectivity for a variety of compounds with moderate polarity or a wider range of polarity in different systems. Also available as a weak anion exchange column, GREENMALL® PSA has two amino groups, provides a higher ion exchange capacity and exhibits two  $K_{av}$  values of 10.1 and 10.9, respectively. Therefore, GREENMALL® PSA can effectively remove fatty acids (including oleic acid, palmitic acid, linolenic acid, etc.), organic acids, some polar pigments and sugars from food that affect the detection of agricultural residues. At the same time, the presence of diamine can also act as a chelating agent for metal ions.

Average particle size: 60µm; Average diameter: 60A; Specific surface area: 480m<sup>2</sup>/g

| OrderNO.      | Column weight of stuffing specifications |     | Package    |
|---------------|------------------------------------------|-----|------------|
| PSA-01-100mg  | 100mg                                    |     | 50 per box |
| PSA-03-200mg  | 200mg                                    |     | 50 per box |
| PSA-03-500mg  | 500mg                                    |     | 50 per box |
| PSA-06-500mg  | 600mg                                    |     | 30 per box |
| PSA-06A-500mg | 500mg Carb+500mg PSA                     | 6mL | 30 per box |
| PSA-06B-500mg | 500mg GCB+500mg PSA                      | 6mL | 30 per box |
| PSA-06-1000mg | 1000mg                                   |     | 30 per box |
| PSA-12-1000mg | 1000mg                                   |     | 30 per box |
| PSA-12-2000mg | 2000mg                                   |     | 20 per box |



## DARSUN™ SCX Solid Phase extraction column (silica gel based strong cation exchange column)

Polymer matrix adsorbents often have mixed retention mechanisms, and GREENMALL's polymer matrix SPE products are no exception. GREENMALL's SCX is a polymer-based mixed adsorbent with strong cation exchange and hydrophobic properties of reversed-phase chromatographic stationary phase. It contains strongly acidic sulfonic acid functional groups. Selective retention of alkaline and neutral compounds, can show relative non-polar forces, usually used for alkaline substances such as melamine, amphetamine, pramine, piperidine extraction, as well as for the extraction of positive alkaline compounds, equivalent to Watrs Oasis MCX, Phenomenex Strata-X-C.

Average particle size: 60µm; Average aperture: 300A; Specific surface area: 600m<sup>2</sup>/g

| OrderNO.      | Gram weight of stuffing |       | Column specifications | Package    |
|---------------|-------------------------|-------|-----------------------|------------|
|               | 30mg                    |       |                       |            |
| SCX-01-30mg   | 60mg                    | 60mg  | 1mL                   | 50 per box |
| SCX-01-60mg   | 200mg                   | 500mg | 1mL                   | 50 per box |
| SCX-03-60mg   | 200mg                   | AL-N  | 3mL                   | 50 per box |
| SCX-03-200mg  | 500mg                   | 500mg | 3mL                   | 50 PCS/box |
| SCX-03-500mg  | 1000mg                  |       | 3mL                   | 50 per box |
| SCX-06-200mg  | 1000mg                  |       | 6mL                   | 30 per box |
| SCX-06N-500mg | 2000mg                  |       | 6mL                   | 30 per box |
| SCX-06-500mg  |                         |       | 6mL                   | 30 PCS/box |
| SCX-06-1000mg |                         |       | 6mL                   | 30 per box |
| SCX-12-1000mg |                         |       | 12mL                  | 20 per box |
| SCX-12-2000mg |                         |       | 12mL                  | 20 per box |





## DARSUN™ GCB/NH<sub>2</sub> Solid Phase Extraction column (amino)

GraphiCarb/NH<sub>2</sub> consists of equal amounts of graphitized carbon black and amino propyl bonded silica gel mixed column, in pesticide residue analysis, has a special separation and extraction effect, such as pigment, fatty acid and phenolic removal, organic phosphorus extraction in tea.

| Order NO.     | Weight of packing specifications     |  | Package    |
|---------------|--------------------------------------|--|------------|
| NH2-01-100mg  | <del>100</del> mg                    |  | 50 per box |
| NH2-03-200mg  | <del>200</del> mg                    |  | 50 per box |
| NH2-03-500mg  | <del>500</del> mg                    |  | 50 per box |
| NH2-06-500mg  | <del>600</del> mg                    |  | 30 per box |
| NH2-06A-500mg | 500mg Carb+500mg NH <sub>2</sub> 6mL |  | 30 per box |
| NH2-06B-500mg | 500mg GCB+500mg NH <sub>2</sub> 6mL  |  | 30 per box |
| NH2-06-1000mg | <del>1000</del> mg                   |  | 30 per box |
| NH2-12-1000mg | <del>1200</del> mg                   |  | 30 per box |
| NH2-12-2000mg | <del>2000</del> mg                   |  | 20 per box |



## DARSUN™ Alumina solid phase extraction column

provides Alumina-N neutral alumina; Alumina-A acidic alumina; Alumina-B basic alumina three options. Alumina-N neutral alumina strong polarity SPE adsorbent, surface treatment is neutral, can be through the interaction with aluminum metal center, with the surface silanol group to form hydrogen bond or point charges surface for ion exchange adsorption molecules. It has strong retention ability for heterocyclic substances containing nitrogen, phosphorus and sulfur, rich point compound such as aromatic hydrocarbons and organic amines. It is widely used for sample pretreatment of Sudan red and malachite green. Alumina-N has a grain size of 50-200 μm.

AL-N neutral alumina solid phase extraction column

| Order NO.     | Gram weight of stuffing | Column specifications | Package    |
|---------------|-------------------------|-----------------------|------------|
| ALN-01-100mg  | 100mg                   | 1mL                   | 50 per box |
| ALN-03-200mg  | 200mg                   | 3mL                   | 50 per box |
| ALN-03-500mg  | 500mg                   | 3mL                   | 50 per box |
| ALN-06-500mg  | 500mg                   | 6mL                   | 30 per box |
| ALN-06-1000mg | 1000mg                  | 6mL                   | 30 per box |
| ALN-12-1000mg | 1000mg                  | 12mL                  | 30 per box |
| ALN-12-2000mg | 2000mg                  | 12mL                  | 20 per box |
| ALN-12-5000mg | 5000mg                  | 12mL                  | 20 per box |
| ALN-20-2500mg | 2500mg                  | 20mL                  | 20 per box |



## DARSUN™ AL-A acid Alumina solid phase extraction column

Alumina-A is an alumina adsorbent with an acidic surface (PH=4.5) with a particle size of 50-200µm. It can be used as a strong polar adsorbent and medium cation exchanger.

| OrderNO.      | Gram weight of stuffing | Column specifications | Package    |
|---------------|-------------------------|-----------------------|------------|
| ALA-01-100mg  | 100mg                   | 1mL                   | 50 per box |
| ALA-03-200mg  | 200mg                   | 3mL                   | 50 per box |
| ALA-03-500mg  | 500mg                   | 3mL                   | 50 per box |
| ALA-06-500mg  | 500mg                   | 6mL                   | 30 per box |
| ALA-06-1000mg | 1000mg                  | 6mL                   | 30 per box |
| ALA-12-1000mg | 1000mg                  | 12mL                  | 30 per box |
| ALA-12-2000mg | 2000mg                  | 12mL                  | 20 per box |
| ALA-12-5000mg | 5000mg                  | 12mL                  | 20 per box |
| ALA-20-2500mg | 2500mg                  | 20mL                  | 20 per box |



## DARSUN™ AL-B Alkaline Alumina solid phase extraction column

Alumina-B treats acidic alumina with an alkaline solution, while the resulting alkaline alumina SPE adsorbent, with a negatively charged surface, acts like a cation bond.

| OrderNO.      | Gram weight of stuffing | Column specifications | Package    |
|---------------|-------------------------|-----------------------|------------|
| ALB-01-100mg  | 100mg                   | 1mL                   | 50 per box |
| ALB-03-200mg  | 200mg                   | 3mL                   | 50 per box |
| ALB-03-500mg  | 500mg                   | 3mL                   | 50 per box |
| ALB-06-500mg  | 500mg                   | 6mL                   | 30 PCS/box |
| ALB-06-1000mg | 1000mg                  | 6mL                   | 30 per box |
| ALB-12-1000mg | 1000mg                  | 12mL                  | 30 per box |
| ALB-12-2000mg | 2000mg                  | 12mL                  | 20 per box |
| ALB-12-5000mg | 5000mg                  | 12mL                  | 20 PCS/box |
| ALB-20-2500mg | 2500mg                  | 20mL                  | 20 per box |



## DARSUN™ HLB Solid Phase Extraction column (polystyro-divinylbenzene)

HLB reversed-phase chromatography packing is a synthetic ultra-low pressure rapid reversed-phase chromatography packing, which is based on a uniform size of rigid polystyrene molecules and can be operated from medium column chromatography systems to high pressure liquid phase systems. The filler is similar in nature and use to C18, can replace C18, specific surface area of 600m<sup>2</sup>/g, pore size of 300Å, white powder. It is suitable for industrial fine separation and purification of natural products, chemical drugs, antibiotics and other fields. It has better stability and wide PH applicability than C18.

1. High and stable recovery rate, even if the column bed is dry, the recovery rate is not affected
2. High adsorption capacity. Compared with silica gel, the surface area of HLB is increased by 2-3 times, the capacity factor is greatly improved, and the adsorption capacity of 30mg HLB is equivalent to 100mg C18
3. Excellent batch-to-batch reproducibility
4. good chemical stability
5. Compatible with various automatic solid phase extraction devices

Sample substrate: food, body fluids (plasma/urine, etc.), water, soil, cosmetics  
 Typical applications: Antibiotics (such as cephalosporins, chloramphenicol, sulfanilamide and beta-lactam antibiotics, diazepam,

estrogens, diethylstilbestrol, tetracycline, macrolides, nitroimidazole, acrylamide, etc.); Pesticide residues (sulfonylurea herbicides, carbamate pesticides); Separation of peptides and oligonucleotides; High throughput biomacromolecule desalination treatment; And trace organics, environmental priority pollutants, endocrine disruptors.

| OrderNO.      | Gramweightof stuffing | Column specifications | Package   |
|---------------|-----------------------|-----------------------|-----------|
| HLB-01-30mg   | 30mg                  | 1mL                   | 50per box |
| HLB-01-60mg   | 60mg                  | 1mL                   | 50per box |
| HLB-03-30mg   | 30mg                  | 3mL                   | 50per box |
| HLB-03-60mg   | 60mg                  | 3mL                   | 50PCS/box |
| HLB-06-150mg  | 150mg                 | 6mL                   | 30per box |
| HLB-06-200mg  | 200mg                 | 6mL                   | 30per box |
| HLB-06-500mg  | 500mg                 | 6mL                   | 30per box |
| HLB-06-1000mg | 1000mg                | 6ml                   | 30PCS/box |
| HLB-12-500mg  | 500mg                 | 12mL                  | 20per box |



### DARSUN™ solid phase extraction column; More options available

DARSUN™ solidphaseextractioncolumnsareusedtoextracttargetanalytesfromavarietyofcomplexsubstrates,including biological fluids (blood and urine), water samples, soil, food, etc., for concentration or purification prior to chromatographic analysis.

TheDARSUN Solidphaseextractioncolumnfamilyoffersthebestqualityand superior performanceforchromatographicanalysis.

TheDARSUN SPEcolumnisfilledwithahighpuritysphericaladsorbent andis distributed moreevenly,ensuringrepeatabilityandconsistencyofexperimentalresultsin orderto guaranteea safe,reliable andefficient sample preparationprocess.

DARSUN SAXSolidPhaseextractioncolumn(silicagelbased strong anionexchange column)



| Order NO.     | Gram weight of stuffing | Column specifications | Package    |
|---------------|-------------------------|-----------------------|------------|
| SAX-01-30mg   | 30mg                    | 1mL                   | 50 per box |
| SAX-01-100mg  | 100mg                   | 1mL                   | 50 per box |
| SAX-03-200mg  | 200mg                   | 3mL                   | 50 per box |
| SAX-03-500mg  | 500mg                   | 3mL                   | 50 per box |
| SAX-06-200mg  | 200mg                   | 6mL                   | 30 per box |
| SAX-06-500mg  | 500mg                   | 6mL                   | 30 per box |
| SAX-06-1000mg | 1000mg                  | 6mL                   | 30 per box |
| SAX-12-1000mg | 1000mg                  | 12mL                  | 20 per box |
| SAX-12-2000mg | 2000mg                  | 12mL                  | 20 per box |

### DARSUN™ Carb Solid Phase Extraction column (activated carbon)

| Order NO.      | Gram weight of stuffing | Column specifications | Package    |
|----------------|-------------------------|-----------------------|------------|
| Carb-01-100mg  | 100mg                   | 1mL                   | 50 per box |
| Carb-03-200mg  | 200mg                   | 3mL                   | 50 per box |
| Carb-03-500mg  | 500mg                   | 3mL                   | 50 per box |
| Carb-06-500mg  | 500mg                   | 6mL                   | 30 per box |
| Carb-06-1000mg | 1000mg                  | 6mL                   | 30 per box |
| Carb-12-1000mg | 1000mg                  | 12mL                  | 30 per box |
| Carb-12-2000mg | 2000mg                  | 12mL                  | 20 per box |



## DARSUN™ Diol Solid Phase Extraction column (diol)

| Order NO.      | Gram weight of stuffing | Column specifications | Package    |
|----------------|-------------------------|-----------------------|------------|
| Diol-01-100mg  | 100mg                   | 1mL                   | 50 per box |
| Diol-03-200mg  | 200mg                   | 3mL                   | 50 per box |
| Diol-03-500mg  | 500mg                   | 3mL                   | 50 per box |
| Diol-06-500mg  | 500mg                   | 6mL                   | 30 per box |
| Diol-06-1000mg | 1000mg                  | 6mL                   | 30 per box |
| Diol-12-1000mg | 1000mg                  | 12mL                  | 30 per box |
| Diol-12-2000mg | 2000mg                  | 12mL                  | 20 per box |

## DARSUN™ PS-DVB Solid phase extraction column

| Order NO.     | Gram weight of stuffing | Column specifications | Package    |
|---------------|-------------------------|-----------------------|------------|
| PSD-01-30mg   | 30mg                    | 1mL                   | 50 per box |
| PSD-01-60mg   | 60mg                    | 1mL                   | 50         |
| PSD-03-30mg   | 30mg                    | 3mL                   | PCS/box 50 |
| PSD-03-60mg   | 60mg                    | 3mL                   | per box 50 |
| PSD-06-150mg  | 150mg                   | 6mL                   | per box 30 |
| PSD-06-200mg  | 200mg                   | 6mL                   | per box 30 |
| PSD-06-500mg  | 500mg                   | 6mL                   | PCS/box 30 |
| PSD-06-1000mg | 1000mg                  | 6mL                   | per box 30 |
| PSD-12-500mg  | 500mg                   | 12mL                  | per box 20 |

per box



## Darsun Slide series

Slide cover slide

Slide Series

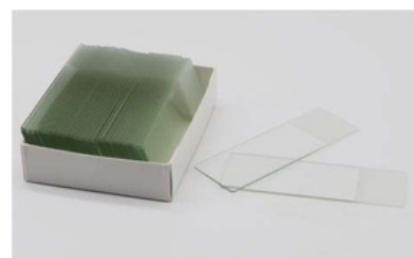


## DARSUN™ regular slides

□ 75x25x1mm

- Pathological grade, pre-clean, ready-to-use type
- Chemical resistance, smooth surface, polished edges
- Suitable for histology, cytology, haematology, urinalysis and microbiology

| Order NO.   | Description                     | Package                     |
|-------------|---------------------------------|-----------------------------|
| GS7101-7525 | DARSUN regular slide; 75x25x1mm | 50 pieces/box; 50 boxes/box |



## DARSUN™ frosted glass slides

- 75x25x1mm
- Pathological grade, pre-clean, ready-to-use type
- Chemical resistant, flat surface
- Retain the original cut on the edge of the slide
- Have a frosted writing area on one end
- The markings on the frosted writing area are not easily erased or washed off during routine experiments
- Suitable for histology, cytology, hematology, urinalysis, and microbiology

| Order NO.   | Description                     | Package                     |
|-------------|---------------------------------|-----------------------------|
| GS7105-7525 | DARSUN frosted slide; 75x25x1mm | 50 pieces/box; 50 boxes/box |



## DARSUN™ slip resistant slides

□ 75x25x1mm

- Pathological grade, pre-clean, ready-to-use type
- Chemical resistant, flat surface
- Through special surface treatment, the tissue and cells can be adsorbed on the slide
- It is suitable for histology, cytology, microbiology and frozen tissue section

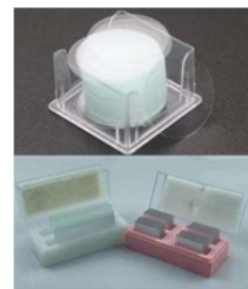
| Order NO.   | Description                                   | Package                     |
|-------------|-----------------------------------------------|-----------------------------|
| GS7109-7525 | DARSUN slip resistant slide; Scrub; 75x25x1mm | 50 pieces/box; 50 boxes/box |





## DARSUN™ cover glass

- Pathological grade, pre-clean, ready-to-use type
- Chemical corrosion resistance, flat surface, no fuzz
- DARSUN coverslides are available in square, round and rectangular shapes
- Come in an easily accessible plastic box Package



| Order No.                              | Thickness: 0.1mm ± 0.01mm                               | Package                      |
|----------------------------------------|---------------------------------------------------------|------------------------------|
| <b>DARSUN™ round cover glass</b>       |                                                         |                              |
| CGS010-12C                             | DARSUN™ round cover glass; Diameter: 12mm               | 100 pieces/box; 10 boxes/box |
| CGS010-15C                             | DARSUN™ round cover glass; Diameter: 15mm               | 100 pieces/box; 10 boxes/box |
| CGS010-20C                             | DARSUN™ round cover glass; Diameter: 20mm               | 100 pieces/box; 10 boxes/box |
| CGS010-22C                             | DARSUN™ round cover glass; Diameter: 22mm               | 100 pieces/box; 10 boxes/box |
| <b>DARSUN™ square cover glass</b>      |                                                         |                              |
| CGS010-18S                             | DARSUN™ square cover glass; Size: 18x18mm               | 200 pieces/box; 10 boxes/box |
| CGS010-20S                             | DARSUN™ square cover glass; Size: 20x20mm               | 200 pieces/box; 10 boxes/box |
| CGS010-22S                             | DARSUN™ square cover glass; Specification: 22x22mm      | 200 pieces/box; 10 boxes/box |
| CGS010-24S                             | DARSUN™ square cover glass; Size: 24x24mm               | 200 pieces/box; 10 boxes/box |
| <b>DARSUN™ rectangular cover glass</b> |                                                         |                              |
| CGS010-2430R                           | DARSUN™ rectangular cover glass; Specification: 24x30mm | 100 pieces/box; 10 boxes/box |
| CGS010-2440R                           | DARSUN™ rectangular cover glass; Specification: 24x40mm | 100 pieces/box; 10 boxes/box |
| CGS010-2450R                           | DARSUN™ rectangular cover glass; Specification: 24x50mm | 100 pieces/box; 10 boxes/box |
| CGS010-2460R                           | DARSUN™ rectangular cover glass; Specification: 24x60mm | 100 pieces/box; 10 boxes/box |

## DARSUN™ dyeing jars

- Heavy duty glass material

- DARSUN dyeing jars are available in vertical and horizontal types

| Order No. | Available in two styles: upright and horizontal | Package                   |
|-----------|-------------------------------------------------|---------------------------|
| GDC01-05  | DARSUN™ dye jar; Upright; 5 slots               | Single standalone Package |
| GDC01-09  | DARSUN™ dye jar; Upright; 9 slots               | Single standalone Package |
| GDC02-10  | DARSUN™ dye jar; Horizontal; 10-slot            | Single standalone Package |



# Darsun



Instrument  
series

## DARSUN™ Vortex Mixer

The DARSUN™ Vortex mixer is a test tube oscillator that focuses on the point-and-move function. It is suitable for oscillating and mixing samples of various reagents, solutions, chemicals, etc. Especially suitable for mixing and mixing in small containers (up to 50ml centrifuge tube). The compact size of this instrument is mainly suitable for medical, biological engineering, chemical laboratories, biochemical laboratories, etc., the mixing effect is obvious, and there is no pollution effect on the substance in the test tube.

- The shape is novel, the volume is small, the quality is reliable
- Used in centrifuge tube or test tube with capacity not greater than 50ml, the mixing effect is remarkable
- Mixing speed is high, the highest speed can reach 4000rpm
- External 12V power adapter, DC brushless motor

| Model                    | Mix-4000               | Mix-4000S              |
|--------------------------|------------------------|------------------------|
| Rev range                | 3000rpm                | 3000rpm; adjustable    |
| Amplitude of oscillation | The 4.5 mm             | The 4.5 mm             |
| Power supply             | Power adapter DC12V/1A | Power adapter DC12V/1A |
| Overall dimensions (mm)  | 105 * 105 * 70         | 105 * 105 * 70         |
| Weight                   | 1.2 kg                 | 1.2 kg                 |



## DARSUN™ Microplate mini-centrifuge

The DARSUN™ Microplate mini-centrifuge is a mini instantaneous centrifuge specifically designed for 96-well microplates that is capable of instantly removing droplets from the lower wall by simply moving the microhole. The plate can be vertically loaded from the top slot of the centrifuge (the liquid stays at the bottom of the microplate under the action of surface tension, and does not leak), user-friendly programming,

With adjustable operation modes of point, timing and constant speed, the experiment is more convenient and efficient.

- Wide application range: 96-well, 384-well PCR plate; 96-well, 384-well enzyme label plate; 8x0.2ml PCR tube, 0.2ml PCR tube
- LCD screen, the operation can modify the centrifugal parameters, humanized program design, the configuration of the point, timing and constant speed adjustable operation mode, so that the experiment is more convenient and efficient
- Instantaneous centrifugal function, instantaneous acceleration to the set speed, automatic braking, quick stop
- DC brushless motor maintenance-free, quiet and stable operation, faster acceleration and deceleration rate, in a short time to separate more samples
- Unique appearance design, small size, no space, simple operation, the full cover 90° open for easy access to microplate
- It can quickly remove the droplet from the lower hanging wall, and can be used before and after PCR experiment to significantly improve the experimental effect

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Model Number                       | Mini-3K                                        |
| RPM                                | 500-3000rpm                                    |
| Maximum relative centrifugal force | 600g                                           |
| Sample handling capacity           | 2 96-well PCR plates/enzyme label plates       |
| Timing range                       | 1s ~99s /1min-99min/ dotting                   |
| Input power                        | Power adapter DC24V/2A (AC 100V~230V, 50/60Hz) |
| Overall dimensions (mm)            | 230x195x195                                    |
| Net weight                         | 2.6 kg                                         |





## DARSUN™ BLD Series Mini centrifuges

DARSUN™ BLD series Mini centrifuges are unique and versatile in appearance, equipped with a variety of rotors for 2.0ml, 1.5ml, 0.5ml, 0.2ml centrifuge tubes and 0.2ml--8 tandem centrifuge tubes for PCR. Humanized design, with flip switch function, open the cover automatically stop (press the upper cover to turn, open the cover to stop).

□ Safety design: use flip switch function, open the cover is automatically stopped, the outer cover is made of composite material, not easy to break

□ Micro DC motor is adopted



| Order NO.         | BLD-6K                                                | BLD-7K                                                | BLD-10K                                               | BLD-96K<br>Microorifice adapter |
|-------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|---------------------------------|
| Adaptive rotor    | 8x1.5/2.0ml angular rotor<br>2x8x0.2ml row tube rotor | 8x1.5/2.0ml angular rotor<br>2x8x0.2ml row tube rotor | 8x1.5/2.0ml angular rotor<br>2x8x0.2ml row tube rotor |                                 |
| Maximum speed     | 6000 RPM                                              | 7000 RPM                                              | 10000 RPM                                             | 2500rpm                         |
| Centrifugal force | 2000 xg                                               | 2300 xg                                               | 5000 xg                                               |                                 |
| Power supply      | 30W                                                   | 30W                                                   | 40W                                                   | 40W                             |

## DARSUN™ Vortex Mixer

The vortex mixer is small in size and is mainly suitable for mixing sample tissues, cells, bacterial liquids, chemical reagents, etc.

The mixing effect is obvious, and there is no pollution effect on the substance in the test tube.

□ Novel shape, small size, reliable quality

□ All kinds of 0.2-50ml centrifuge tubes can be oscillated, and other test tubes or containers are less than 30mm diameter

□ Mixing speed is high, the maximum speed can reach 3000rpm

□ External 12V power adapter, quiet and stable operation, faster acceleration and deceleration speed

□ External 12V power adapter, DC brushless motor, a variety of fixtures to choose from



| Order NO.        | MV M-3 000                             |
|------------------|----------------------------------------|
| Concussion RPM   | 0 to 3000 RPM                          |
| Concussion range | 4mm (approximate circular oscillation) |
| Carrying weight  | 0.4 kg                                 |
| Power supply     | Power adapter DC12V/1A                 |
| Dimensions       | 190X126X113mm                          |
| Net weight       | 2.6 kg                                 |

## DARSUN™ Scroll Mixer accessories

| Order NO.  | Name No.                        | Description                                                    |
|------------|---------------------------------|----------------------------------------------------------------|
| V -3 000   | Standard Concussion head        | Standard configuration; Suitable for test tubes less than 30mm |
| V -2 000   | Standard tray                   | Matching VS series fit gasket used                             |
| V -10 00   | 15ml/50ml centrifugal tube tray | VL series adaptor gasket is used                               |
| V S -0 102 | VS fit shims                    | ADAPTS 0.1ml/0.2ml PCR tube; 48 well                           |
| VS-0005    | VS fit shims                    | ADAPTS 0.5ml microcentrifuge tube /PCR tube; 36 Wells          |
| V S -15 20 | VS adaptor shims                | Fit 1.5ml/2.0ml microcentrifuge tube; 16 well                  |
| VS-0050    | VS fit shims                    | ADAPTS 5.0ml microcentrifuge tube                              |
| V L -0 150 | VL series adaptor gasket        | Suitable for 15ml cone-bottom centrifugal tube                 |

VL -0 500

VL series adaptor gasket

Suitable for 50ml cone-bottom centrifugal tube

## DARSUN™ HM series infrared inoculated ring sterilizer

HM series infrared inoculation ring sterilizer adopts infrared heat sterilization, simple operation, no pollution to the environment, safe and convenient, can completely substitute alcohol lamp widely used in biosafety cabinet, purification table, extraction fan, mobile car and other environment for microbial experiments.

- Using high quality ceramic tube heating parts, inoculation ring disinfection and sterilization is safe and convenient, and can completely replace the alcohol lamp
- The heating parts are easy to disassemble and easy to install
- The high temperature in the heating body hole is above 800°C, and the sterilization only takes about 5S, which can be quickly sterilized
- The heating temperature is divided into two levels, low temperature and high temperature

| Order NO.                                                  | HM150-14       | HM100-35       |
|------------------------------------------------------------|----------------|----------------|
| Input power                                                | AC220V, 50HZ   | AC220V, 50HZ   |
| Maximum temperature in the center area of the heating body | 825 °C + 50 °C | 825 °C + 50 °C |
| Maximum outside diameter of sterilized items               | 14mm           | 35mm           |
| Heating zone length                                        | 150mm          | 100mm          |
| Heat to maximum temperature time                           | 20min          | 20min          |
| Ambient temperature for use                                | 5 °C and 40 °C | 5 °C and 40 °C |
| Overall dimensions (mm)                                    | 90x160x195     | 90x140x225     |
| weight                                                     | 1.3 kg         | 1.5 kg         |



## DARSUN™ CTM-100 Series Heating/cooling type constant temperature mixer/metal bath

CTM-100 thermostatic mixing device integrates mixing, oscillation, incubation heating three functions, using DC brushless motor and microcomputer control technology, it can not only mix a variety of microtube, PCR plate, deep hole plate and micro hole plate and other commonly used laboratory consumables, but also has a variety of modules for heating incubation, catalysis function, to meet the needs of different users.

- LCD liquid crystal display, with power recovery function, the instrument can automatically resume operation according to the original setting program after power recovery
  - Microprocessor control, accurate oscillation speed, blending perfect mixing radius and excellent mixing technology
  - With timing function, the culture time can be set arbitrarily within 0-100 hours
  - A variety of standard sample modules are available, easy to replace
  - Built-in temperature calibration function and short oscillation point function
  - DC brushless motor drive, long life, maintenance free
- Multiplesafety protection functions, safe and reliable



### Host technical parameters

| Order NO.                 | CTM-100H                     | CTM-100R       |
|---------------------------|------------------------------|----------------|
| Temperature control range | Room temperature +5°C -100°C | 0 °C to 100 °C |
| Time setting              | 1min-99h59min                | 1min-99h59min  |

|                         |                              |                                                                        |
|-------------------------|------------------------------|------------------------------------------------------------------------|
| Display accuracy        | Plus or minus 0.5 °C or less | Plus or minus 0.5 °C or less                                           |
| Temperature uniformity  | 0.1°C                        | 0.1°C                                                                  |
| Oscillating speed       | Plus or minus 0.5 °C or less | Plus or minus 0.5 °C or less                                           |
| Heating rate            | 200-1500rpm                  | 200-1500rpm                                                            |
|                         | ≤12min                       | ≤20min (drop to room temperature 20 ° C)<br>≤10min (100 ° C to 20 ° C) |
| Oscillation amplitude   | 3mm(horizontal rotation)     | 3mm(horizontal turn)                                                   |
| Overall dimensions (mm) | 305 * 210 * 195              | 305 * 210 * 195                                                        |
| Net weight              | 8.6 kg                       | 8.8 kg                                                                 |



#### Optional accessories: Modules

| Order NO.     | Description                                                                            |
|---------------|----------------------------------------------------------------------------------------|
| CTM96-002     | PCR tube module; 96 x0.2 ml                                                            |
| CT M5 4 - 005 | 0.5ml microcentrifuge tube module; 54 x0.5 ml                                          |
| CTM35-015     | 1.5ml microcentrifuge tube module; 35 x1.5 ml                                          |
| CTM35-020     | 2.0ml microcentrifuge tube module; 35 x2.0 ml                                          |
| CT M2 4 - 012 | 12mm test tube module; 24*12mm                                                         |
| CTM01-N       | Square tank (water bath) module                                                        |
| CTM01-96      | Test plate/Enzyme label plate/Culture plate module                                     |
| CT M2 4 - 050 | 5ml centrifuge tube module; 24 x 5ml                                                   |
| CT M1 2 -150  | 15ml centrifuge tube module; 12 x15ml                                                  |
| CTM06-500     | 50ml centrifuge tube module; 6x50ml                                                    |
| CT M5 7- 0215 | Module: 32x0.2 MLPCR tube +25x1.5ml microcentrifuge tube                               |
| CTM57-020515  | Module: 32x0.2mlPCR tube +10x0.5ml microcentrifuge tube +15x1.5ml microcentrifuge tube |



## DARSUN™ DTM-100 series heating/cooling type dry thermostats

Microcomputer-controlled thermostatic metal bath, instead of the traditional water bath device, can be widely used in sample preservation and reaction, DNA amplification and electrophoresis pre-denaturation, serum coagulation, etc.

- Real-time temperature display, time declined display
- The instrument has fast heating speed, uniform heating, accurate temperature control and high stability
- Automatic fault detection and buzzer alarm function
- Temperature deviation calibration function
- Multiple module replacement, easy to clean and disinfect
- With programmable function, multi-point temperature control, up to 5 temperature points and constant temperature time setting and continuous operation



| Order NO.                 | DTM-100H                     | DTM-100R                                                                     |
|---------------------------|------------------------------|------------------------------------------------------------------------------|
| Temperature control range | Room temperature +5°C-100°C  | - 10 °C to 100 °C                                                            |
| Temperature stability     | Plus or minus 0.5 °C or less | Plus or minus 0.5 °C or less                                                 |
| Temperature uniformity    | Plus or minus 0.5 °C or less | Plus or minus 0.5 °C or less                                                 |
| Display accuracy          | 0.1 °C                       | 0.1 °C                                                                       |
| Time setting              | 1min-99h59min                | 1min-99h59min                                                                |
| heating/cooling time      | Rise to 100°C ≤ 12min        | Rise to 100°C ≤ 12min<br>Decrease to -5°C ≤ 15min<br>Reduce to -10°C ≤ 20min |
| Input power supply        | AC220V/AC110V, 50/60Hz, 150W | AC220V/AC110V, 50/60Hz, 150W                                                 |
| Overall dimensions (mm)   | 300 * 220 * 170              | 300 * 220 * 170                                                              |
| Net weight                | 3.3 kg                       | 4.5 kg                                                                       |



### Optional accessories: Modules

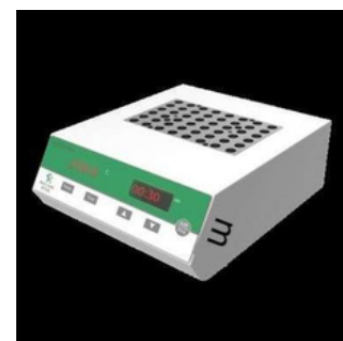
| Order NO.     | Description                                          |
|---------------|------------------------------------------------------|
| CTM96-002     | PCR tube module; 96 x 0.2 ml                         |
| CT M5 4 - 005 | 0.5ml microcentrifuge tube module; 54 x 0.5 ml 1.5ml |
| CTM35-015     | microcentrifuge tube module; 35 x 1.5 ml 2.0ml       |
| CTM35-020     | microcentrifuge tube module; 35 x 2.0 ml 12mm test   |
| CT M2 4 - 012 | tube module; 24*12mm                                 |
| CTM01-N       | Square tank (water bath) module                      |
| CTM01-96      | Test plate/Enzyme label plate/Culture plate module   |
| CT M2 4 - 050 | 5ml centrifuge tube module; 24 x 5ml                 |
| CT M1 2 -150  | 15ml centrifuge tube module; 12 x 15ml               |

|               |                                                                                         |
|---------------|-----------------------------------------------------------------------------------------|
| CT M5 7- 0215 | 50ml centrifuge tube module; 6x50ml                                                     |
| CTM57-020515  | Module: 32x0.2 MLPCR tube +25x1.5ml microcentrifuge tube                                |
|               | Module: 32x0.2 MLPCR tube +10x0.5ml microcentrifuge tube +15x1.5ml microcentrifuge tube |

## DARSUN™ TDM-200 series multi-module dry thermostats

DTM-200 series dry thermostat adopts microcomputer controlled constant temperature metal bath device, high temperature control precision, good sample parallelization, to replace the traditional water bath device, can be widely used in a variety of sample culture, preservation and reaction, the application industry throughout medicine, chemical industry, food safety, quality inspection, environment, etc.

- ☐ Temperature, time LED display
- ☐ Real-time temperature reality, time decline display
- ☐ Automatic fault detection and buzzer alarm function
- ☐ Temperature deviation calibration function
- ☐ Easy module replacement for easy cleaning and disinfection
- ☐ Built-in over temperature protection device
- ☐



| Order NO.                    | D TM- 200 S                   | D TM- 200 X | DTM-200XL  |
|------------------------------|-------------------------------|-------------|------------|
| Temperature range            | Room temperature +5°C-150°C   |             |            |
| Timing time                  | Up to 99 hours and 59 minutes |             |            |
| Temperature control accuracy | ±0.5 °C                       |             |            |
| Display accuracy             | 0.1 °C                        |             |            |
| Temperature uniformity       | ±0.5 °C                       |             |            |
| Heating time                 | ≤20 minutes (20-105°C)        |             |            |
| Number of modules            | 1                             | 2           | 4          |
| Heating power                | 150W                          | 300W        | 600W       |
| Overall dimensions (mm)      | 220x240x95                    | 220x260x95  | 220x340x95 |
| Weight                       | 3.5 kg                        | 4.5 kg      | 5.7 kg     |



## DARSUN™ MP-100 Series Heated/cooled mini metal bath

The MP-100 series Heating/Cooling Mini Metal Bath is a microcomputer-controlled, palm-mounted, thermostatic metal bath that can be used for automotive power supply. Small size, lightweight, easy to move, especially suitable for the field or in crowded experimental environment.

□ Instant temperature display, time declined display

□ Small size, lightweight, easy to move

□ 24VDC power input, built-in over temperature protection device, can be applied to the car power supply

□ Automatic fault detection and buzzer alarm function

□ Temperature deviation calibration function

### Optional accessories: Adaptation module

| Model number | Description                       |
|--------------|-----------------------------------|
| MP40-002     | 40x 0.2ml; 6mm; Cone base         |
| MP24-005     | 24x 0.5ml; 8mm; Cone base         |
| MP15-015     | 15x1.5ml; 11mm; Cone base         |
| MP15-020     | 15x2.0 ml; 11mm; Round base       |
| MP01-C       | Cupola module; 12.5mm; Hollow out |
| MP04-150     | 4x15ml; 17mm; Flat bottom         |
| MP02-500     | 2x50ml; 30mm; Flat base           |

□ Multiple module replacement, easy to clean and disinfect

| Order NO.                    | MP-100H                                  | MP-100C                                                                |
|------------------------------|------------------------------------------|------------------------------------------------------------------------|
| Input power                  | Power adapter DC 24V, 2A                 | Power adapter DC 12V, 5A                                               |
| Temperature control range    | Room temperature +5°C-100°C              | 0 °C to 100 °C                                                         |
| Time setting                 | 1-999min or 1-999sec                     | 1-999min or 1-999sec                                                   |
| Temperature control accuracy | Plus or minus 0.3 °C or less             | Plus or minus 0.5 °C or less                                           |
| Display accuracy             | 0.1 °C                                   | 0.1 °C                                                                 |
| Rising cooling time          | ≤12min (room temperature rises to 100°C) | ≤12min (room temperature rises to 100°C)<br>≤20min (20°C drops to 0°C) |
| Temperature stability        | Plus or minus 0.3 °C or less             | Plus or minus 0.3 °C or less                                           |
| Overall dimensions (mm)      | 162 * 107 * 110                          | 162 * 107 * 126                                                        |
| Weight                       | 0.8 kg                                   | 0.9 kg                                                                 |





Optional accessories: Adaptation module

| Model number | Description                       |
|--------------|-----------------------------------|
| MP40-002     | 40x 0.2ml; 6mm; Cone base         |
| MP24-005     | 24x 0.5ml; 8mm; Cone base         |
| MP15-015     | 15x1.5ml; 11mm; Cone base         |
| MP15-020     | 15x2.0 ml; 11mm; Round base       |
| MP01-C       | Cupola module; 12.5mm; Hollow out |
| MP04-150     | 4x15ml; 17mm; Flat bottom         |
| MP02-500     | 2x50ml; 30mm; Flat base           |

## DARSUN™ CTM-96-2 microplate thermostatic oscillator

CTM-96-2 Microplate thermostatic oscillator. The microplate thermostatic oscillator is a microplate thermostatic oscillator formed by micro-processing technology combined with PID control mode. It has the characteristics of small size, lightweight, low noise and simple operation. Mainly used for enzymatic plate (96-well / 384-well plate), cell culture plate (24-well plate, 48-well plate, 96-well plate, etc.) and other solutions at the appropriate temperature for mixing or cell incubation, often used in immunohistochemistry and molecular diagnostic experiments of microplate constant temperature oscillation.

- It has the function of heating up and down the microporous plate, so that each hole of the microporous plate can be evenly heated.
- The microprocessor controls the temperature, speed and time, the temperature control linearity is good, the oscillation speed is accurate, and the fluctuation is small.
- The setting and actual temperature, time and oscillation speed parameters can be displayed simultaneously.
- 2 standard enzyme plates and microplates can be placed, and a sound alarm will be issued after the program is finished to remind the end of the experiment.

| Order NO.                                      | CTM-96-2                      | CTM-96-4                           |
|------------------------------------------------|-------------------------------|------------------------------------|
| Oscillating RPM                                | 100-1200rpm                   | 100-1500rpm                        |
| Amplitude of oscillation (horizontal rotation) | 2mm                           | 2mm                                |
| Temperature control range                      | Room temperature<br>+5°C-70°C | Room temperature<br>+5 ° C -70 ° C |
| Temperature control accuracy                   | Plus or minus 0.3 °C or less  | Plus or minus 0.3 °C or less       |
| Display accuracy                               | 0.1 °C                        | 0.1 °C                             |
| Heating time (20 ° C to 70 ° C)                | ≤20min                        | ≤20min                             |
| Timing range                                   | 1min-99h59min                 | 1min-99h59min                      |
| Sample throughput                              | 2 standard microporous plates | 4 standard microporous plates      |
| Power supply                                   | AC100-230V, 50-60HZ, 120W     | AC100-230V, 50-60HZ, 120W          |



|                         |                 |                 |
|-------------------------|-----------------|-----------------|
| Overall dimensions (mm) | 270 * 300 * 158 | 325 * 360 * 180 |
| Weight                  | 6.3 kg          | 8.5 kg          |

## DARSUN™ MO-96-4 microplate oscillator

MO-96-4 microplate oscillator is a DC brushless motor driven oscillation, mainly used for enzyme plate (96-well plate / 384-well plate), cell culture plate (24-well plate, 48-well plate, 96-well plate, etc.) and 1.5/2.0 ml centrifuge tubes solution mixed oscillation

- LED digital tube display, the operation panel is simple, can accurately display the time and oscillation speed parameters
- Microprocessor controls speed and time, oscillation speed accurate, small fluctuation, safe and stable no noise
- Time and oscillation speed parameters can be displayed simultaneously
- 4 standard enzyme plate and microplate can be placed, and sound alarm signal can be issued after the program is finished
- DC brushless motor drive, long life, free of insurance, can provide soft or strong oscillation



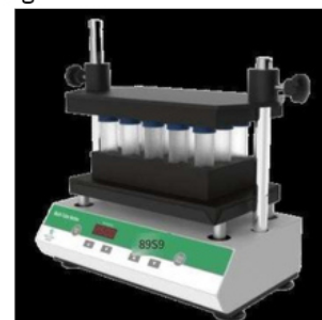
|                                |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| Order NO.                      | MO-96-4                                                                                   |
| Oscillating speed set accuracy | 10rpm                                                                                     |
| Oscillating speed              | 200-1500rpm standard microplate<br>200-1000rpm deep hole plate or centrifugal tube holder |
| Time setting                   | 1min-99h59min                                                                             |
| Amplitude of oscillation       | 3mm                                                                                       |
| Power supply                   | AC220V or AC120V                                                                          |
| Overall dimensions (mm)        | 300x270x125                                                                               |
| Weight                         | 5.5 kg                                                                                    |

## DARSUN™ MMTM-100 multi-tube vortex mixer

The MMTM-100 multi-tube vortex mixer uses a brushless DC motor to drive oscillations and mixes up to 50 samples at a time.

A variety of accessories are available to meet the needs of different specifications of tube vortex mixing.

- LCD displays speed, time, microprocessor control speed and time
- Up to 50 samples can be processed at a time
- Time and oscillation speed parameters can be displayed simultaneously
- 4 standard enzyme plate and microplate can be placed, and sound alarm signal can be issued after the program is finished
- DC brushless motor drive, long life, free of insurance, can provide soft or strong oscillation



|                                |             |
|--------------------------------|-------------|
| Order NO.                      | MTM-100     |
| Oscillating speed set accuracy | 10rpm       |
| Oscillating speed              | 500-2500rpm |

|                          |                  |
|--------------------------|------------------|
| Time Settings            | 1min-99h59min    |
| Amplitude of oscillation | 4mm              |
| Power supply             | AC100V-230V,100W |
| Overall dimensions (mm)  | 240 * 420 * 430  |
| Weight                   | 20kg             |

#### Optional accessories: Adaptation module

| Module number | Module Description                                     | Dimensions (mm) |
|---------------|--------------------------------------------------------|-----------------|
| MTM50-10      | DARSUN test tube adaptation module;<br>50x $\phi$ 10mm | 245x132x45      |
| MTM50-12      | DARSUN test tube adaptation module;<br>50x $\phi$ 12mm | 245x132x45      |
| MTM50-13      | DARSUN test tube adaptation module;<br>50x $\phi$ 13mm | 245x132x45      |
| MTM50-16      | DARSUN test tube adaptation module;<br>50x $\phi$ 16mm | 245x132x45      |
| MTM15-25      | DARSUN test tube adaptation module;<br>15x $\phi$ 25mm | 245x132x45      |
| MTM15-29      | DARSUN test-tube adaptation module;<br>15x $\phi$ 29mm | 245x132x45      |
| MTM01-T       | Replaceable tray mat                                   | 305 x178. 5 x25 |



## DARSUN™ CT300 Series circular shaker

The DARSUN™ CT300 series Circular shaker is compact and uses DC brushless motor technology and microcomputer control technology to provide a wider range of functions for applications in biotechnology, microbiology and medical analysis.

- Rotational speed 50-300rpm
- With timing function, the culture time can be set arbitrarily within the range of 1min~100hours
- Interchangeable stage, maximum load: 3.0kg
- Low voltage power supply, suitable for freezer use
- Working environment temperature: 4~45°C
- A variety of trays to choose from, suitable for different mixing work

| Order NO.            | CT300-10                    | CT300-20                    |
|----------------------|-----------------------------|-----------------------------|
| Rev                  | 50-350rpm                   | 50-300rpm                   |
| Track diameter       | 10mm                        | 20mm                        |
| Timing range         | 1min-99h59min               | 1min-99h59min               |
| Stage                | See Optional accessories    | See Optional Parts          |
| Maximum load bearing | 3.0 kg                      | 2.5 kg                      |
| Power supply         | AC 100-230V<br>50-60HZ, 60W | AC 100-230V<br>50-60HZ, 60W |
| Size (mm)            | 300 * 270 * 125             | 300 * 270 * 125             |
| Weight               | 5.5 kg                      | 5.5 kg                      |



### Select accessories

| Order Number | Description                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------|
| CT01-N       | Universal pallet clamp with non-slip rubber pad for all kinds of containers                                |
| CT12-100     | Conical flask holder with clamp for 12x100/150ml flask                                                     |
| CT6-150      | Conical flask holder with clamp for 6x250/300ml flask                                                      |
| CT-1N        | Adjustable flask stand, equipped with anti-shan rubber pad, suitable for all kinds of cell culture bottles |
| CT-MF        | Universal fixture for all kinds of centrifugal tubes and conical bottles                                   |

## FORLAB Reagent



## High-glucose DMEM medium containing L-glutamine and sodium pyruvate

### Product introduction

DMEM (Dulbecco's Modified Eagle Medium) is a widely used basic medium for a variety of

mammalian cell cultures, including cell lines such as HeLa, 293, Cos-7, and PC-12, as well as primary fibroblasts, neurons, glial cells, and more. Human umbilical vein endothelial cells, smooth muscle cells etc., DMEM contains four times the concentration of amino acids and vitamins compared to MEM

This product uses Water-For-Injection configuration



| Order NO. | Description                                                             | Product Features                                                     | Contains ingredients    |
|-----------|-------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------|
| FL10010   | High-sugar DMEM medium containing L-glutamine and sodium pyruvate 500mL | This product is a filtration and sterilization product               | Contain (+)             |
|           |                                                                         | Physical appearance: red clarified liquid                            | 4.5g/L D-glucose        |
|           |                                                                         | Endotoxin $\leq 1$ EU/mL                                             | L-glutamine             |
|           |                                                                         | Osmotic pressure: 320-350 mOsm/kg·H <sub>2</sub> O                   | Phenol                  |
|           |                                                                         | pH value: 7.0-7.4                                                    | 0.11g/L sodium pyruvate |
|           |                                                                         | Transport condition: Blue ice                                        | Excluding (-)           |
|           |                                                                         | Storage conditions: 2-8°C store away from light, valid for 12 months | HEPES                   |

Note: This product is intended for scientific research and production, for in vitro culture of tissues and cells; Prohibited from clinical use

## DMEM/F-12(1:1) medium with L-glutamine and HEPES

### Product introduction

DMEM/F-12 (Dulbecco's Modified Eagle Medium/Nutrient Mixture F-12) is a widely used basic medium to support the growth of a variety of mammalian cells. Successful cultured cells in this medium include MDCK glial cells, Fibroblasts, human endothelial cells and rat fibroblasts;

A 1:1 mixture of DMEM medium and Ham's F-12 medium, this product is ideal for cultivating a wider range of cell types under low serum conditions

This product uses Water-For-Injection configuration



| Order NO. | Description                                                  | Product Features                                                     | Contains ingredients |
|-----------|--------------------------------------------------------------|----------------------------------------------------------------------|----------------------|
| FL10012   | DMEM/F-12(1:1) medium containing L-glutamine and HEPES 500mL | This product is a filtration and sterilization product               | Contain (+)          |
|           |                                                              | Physical appearance: red clarified liquid                            | Phenol red           |
|           |                                                              | Endotoxin $\leq 1$ EU/mL                                             | L Sodium pyruvate    |
|           |                                                              | Osmotic pressure: 290-330 mosm /kg·H <sub>2</sub> O                  | HEPES                |
|           |                                                              | pH value: 7.0-7.4                                                    |                      |
|           |                                                              | Transport condition: Blue ice                                        |                      |
|           |                                                              | Storage conditions: 2-8°C store away from light, valid for 12 months |                      |

Note: This product is intended for scientific research and production, for in vitro culture of tissues and cells; Prohibited from clinical use



## RPMI 1640 medium (containing L-glutamine)

### Product introduction

- RPMI1640 was originally used for suspension culture or monolayer culture of human leukemia cells. Later, it was found that this medium was also suitable for the culture of HeLa, Jurkat, MCF-7, PC12, peripheral blood mononuclear cells (B and T lymphocytes), astrocytes and cancer cells
- The RPMI1640 medium contains biotin, vitamin B12 and p-aminobenzoic acid that are not present in DMEM, as well as high concentrations of inositol and choline chloride
- This product uses Water-For-Injection configuration



| Order NO. | Description                                  | Product Features                                                      | Contains ingredients |
|-----------|----------------------------------------------|-----------------------------------------------------------------------|----------------------|
| FL10011   | RPMI1640 medium containing L-glutamine 500mL | This product is a filtration and sterilization product                | Contain (+)          |
|           |                                              | Physical appearance: red clarified liquid                             | L-glutamine          |
|           |                                              | Endotoxin: $\leq 1\text{EU/mL}$                                       | Phenol red           |
|           |                                              | Osmotic pressure: 260-305mOsm/kg·H <sub>2</sub> O                     | Excluding (-)        |
|           |                                              | pH value: 7.0-7.4                                                     | HEPES                |
|           |                                              | Transport condition: Blue ice                                         |                      |
|           |                                              | Storage conditions: 2-8 °C store away from light, valid for 12 months |                      |

Note: This product is intended for scientific research and production, for in vitro culture of tissues and cells; Prohibited from clinical use

## Phosphate buffer (PBS) (pH7.4)

### Product introduction

- Phosphate buffers (PBS) can be used for a variety of cell culture purposes, such as rinsing cells before dissociating them, transporting cell or tissue samples, diluting cells for cell counting, and preparing various reagent solutions
- PBS does not contain calcium and magnesium ions and can be used to clean the chelating agent before cell dissociation
- This product uses Water-For-Injection configuration



| Order NO. | Description                          | Product Features                                                     | Contains ingredients |
|-----------|--------------------------------------|----------------------------------------------------------------------|----------------------|
| FL10210   | Phosphate buffer (PBS) (pH7.4) 500mL | This product is a filtration and sterilization product               | Excluding (-)        |
|           |                                      | Physical appearance: Colorless clear liquid                          | Ca <sup>2+</sup>     |
|           |                                      | Endotoxin: $\leq 1\text{EU/mL}$                                      | Mg <sup>2+</sup>     |
|           |                                      | Osmotic pressure: 280-320mOsm/kg·H <sub>2</sub> O                    | Phenol red           |
|           |                                      | pH value: 7.3-7.5                                                    |                      |
|           |                                      | Transport condition: room temperature                                |                      |
|           |                                      | Storage conditions: 2-30 °C store away from light, valid for 5 years |                      |



Note: This product is intended for scientific research and production, for in vitro culture of tissues and cells; Prohibited from clinical use

## Serum Free cell storage solution

### Product introduction

- FORLAB Serum Free cell freeze is a ready-to-use product that does not contain serum or animal derived proteins. Reduce the risk of contamination by various bacteria, viruses, mycoplasma, etc., ensure the safety of frozen cells, and reduce the influence of exogenous proteins on normal cell growth and differentiation
- Without the need for programmed cooling, it can preserve cells at -80°C for a long time, which is suitable for freezing most mammalian cells



| Order NO. | Description | Product Features                                                                   |
|-----------|-------------|------------------------------------------------------------------------------------|
| FL10020   | 50ml        | Storage conditions: 4 ° C away from light storage, expiration date for the Package |
| FL10020L  | 100ml       |                                                                                    |

## Cell Counting Kit-8 (CCK-8) Cell proliferation Kit

### Product introduction

- Cell Counting Kit-8, referred to as CCK8 (or WST-8) kits, is based on WST-8 (chemical name: The color reaction of 2-(2-methoxy-4-nitrophenyl)-3-(4-nitrophenyl)-5-(2, 4-disulfonobenzene) -2h-tetrazole monosodium salt is widely used in rapid and sensitive detection kit for cell proliferation and cytotoxicity

□ How WST-8 works: In the presence of electron-coupled reagents, it can be reduced by dehydrogenase in mitochondria to produce highly water-soluble orange formazan. The color depth is proportional to the proliferation of cells and inversely proportional to the cytotoxicity. OD values were measured at the wavelength of 450nm by enzymoscope, which indirectly reflected the number of living cells

□ WST-8 is an upgrade replacement of MTT, and has obvious advantages over MTT or other MTT similar products such as XTT, MTS, etc. Firstly, Formazan, which is reduced by some dehydrogenases in the mitochondria, is not water-soluble and requires a specific solution to dissolve it. However, formazan produced by WST-8, XTT and MTS

is water-soluble and can eliminate the subsequent dissolution steps. Secondly, Formazan produced by WST-8 is more soluble than Formazan produced by XTT and MTS. Thirdly, WST-8 is more stable than XTT and MTS, which makes the experimental results more stable. In addition, WST-8 has a wider linear range and higher sensitivity than MTT and XTT

□ CCK method is widely used in drug screening, cell proliferation assay, cytotoxicity assay, tumor drug susceptibility assay and biological factor activity detection



| Order NO. | Description   | Product Features                                                                                           |
|-----------|---------------|------------------------------------------------------------------------------------------------------------|
| FL10030   | 100T 1 mL     | Storage conditions: 4°C away from light storage, long-term storage at -20 ° C, the validity of the Package |
| FL10030M  | 500T 5 mL     |                                                                                                            |
| FL10030L  | 3000T 30 mL   |                                                                                                            |
| FL10030XL | 10000T 100 mL |                                                                                                            |

| Chemical name<br>Temperature for use ° C | LDPE |    | HDPE |    | PP |    | PET |    | PC |    | PS |    |
|------------------------------------------|------|----|------|----|----|----|-----|----|----|----|----|----|
|                                          | 20   | 50 | 20   | 50 | 20 | 50 | 20  | 50 | 20 | 50 | 20 | 50 |
| 1,4-digoats heterocycloethane            | S    | M  | G    | G  | U  | U  | -   | -  | U  | U  | U  | U  |
| 2,2,4-trimethylpentane                   | M    | U  | M    | U  | M  | U  | -   | -  | U  | U  | U  | U  |
| 2,4, 6-trinitrophenol                    | U    | U  | U    | U  | U  | U  | -   | -  | U  | U  | G  | M  |
| 2-methoxyethanol                         | S    | G  | S    | S  | G  | S  | M   | U  | U  | U  | U  | U  |
| 2-propyl alcohol                         | S    | S  | S    | S  | S  | S  | -   | -  | S  | S  | S  | G  |
| acetaldehyde                             | G    | U  | G    | M  | G  | M  | -   | -  | U  | U  | U  | U  |
| Acetamide - saturated                    | S    | S  | S    | S  | S  | S  | -   | -  | U  | U  | S  | S  |
| Acetic acid -5%                          | S    | S  | S    | S  | S  | S  | M   | U  | S  | G  | S  | G  |
| Acetic acid -50%                         | G    | M  | S    | G  | S  | S  | U   | U  | G  | M  | G  | G  |
| Acetic acid - ice                        | G    | U  | G    | G  | S  | G  | U   | U  | U  | U  | M  | U  |
| Acetic anhydride                         | U    | U  | M    | M  | G  | M  | -   | -  | U  | U  | U  | U  |
| Acetone                                  | G    | U  | U    | U  | M  | U  | U   | U  | U  | U  | U  | U  |
| Potassium cyanide alkyl                  | S    | S  | S    | S  | S  | G  | -   | -  | U  | U  | U  | U  |
| acetophenone                             | U    | U  | M    | M  | M  | U  | -   | -  | U  | U  | U  | U  |
| acrylonitrile                            | S    | S  | S    | S  | M  | U  | -   | -  | U  | U  | U  | U  |
| Adipic acid                              | S    | G  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Alanine                                  | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Allyl alcohol                            | S    | S  | S    | S  | S  | S  |     |    | G  | G  | G  | M  |
| Aluminum chloride                        | S    | S  | S    | S  | S  | S  |     |    | S  | G  | S  | S  |
| Aluminum hydroxide                       | S    | G  | S    | S  | S  | G  |     |    | M  | U  | G  | G  |
| Aluminum salt                            | S    | S  | S    | S  | S  | S  |     |    | S  | G  | S  | G  |
| Amino acids                              | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Ammonia -25%                             | S    | S  | S    | S  | S  | S  |     |    | U  | U  | S  | G  |
| am m onia                                | S    | S  | S    | S  | S  | S  |     |    | U  | U  | S  | G  |
| Ammonium acetate -saturated              | S    | S  | S    | S  | S  | S  |     |    | G  | G  | S  | S  |
| Ammonium chloride                        | S    | S  | S    | S  | S  | S  |     |    | S  | G  | S  | S  |
| Glycolate ester amine                    | S    | G  | S    | S  | S  | G  |     |    | G  | M  | S  | S  |
| Ammonium hydroxide -5%                   |      |    |      |    |    |    | M   | U  | M  | U  | S  | M  |
| Ammonium hydroxide -30%                  | S    | S  | S    | S  | S  | S  | U   | U  | U  | U  | G  | M  |
| Ammonium oxalate                         | S    | G  | S    | S  | S  | G  |     |    | S  | S  | S  | S  |
| Ammonium salt                            |      |    |      |    |    |    |     |    | S  | S  | G  | G  |
| Amyl alcohol                             | S    | G  | S    | S  | S  | G  |     |    | G  | M  | G  | M  |
| Amyl chloride                            | S    | S  | S    | S  | S  | S  |     |    | U  | U  | U  | U  |
| Aniline                                  |      |    |      |    |    |    |     |    | U  | U  | U  | U  |
| Aqua regia                               | S    | S  | S    | S  | S  | S  |     |    | U  | U  | U  | U  |
| Arsenate acid                            | U    | U  | M    | U  | U  | U  |     |    | S  | S  | S  | S  |
|                                          | S    | G  | G    | M  | S  | G  |     |    |    |    |    |    |
|                                          | U    | U  | U    | U  | U  | U  |     |    |    |    |    |    |
|                                          | G    | M  | S    | S  | S  | S  |     |    |    |    |    |    |

DARSUN:Commonlyusedresinchemicalresistancetable

| Chemical name<br>Temperature for use°C | LDPE |    | HDPE |    | PP |    | PET |    | PC |    | PS |    |
|----------------------------------------|------|----|------|----|----|----|-----|----|----|----|----|----|
|                                        | 20   | 50 | 20   | 50 | 20 | 50 | 20  | 50 | 20 | 50 | 20 | 50 |
| benzaldehyde                           | S    | G  | G    | U  | S  | G  |     |    | U  | U  | U  | U  |
| Aniline                                | S    | G  | G    | M  | S  | G  |     |    | U  | U  | U  | U  |
| benzene                                | U    | U  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Benzyl acetate                         | S    | G  | S    | S  | S  | G  |     |    | M  | U  | U  | U  |
| Benzyl alcohol                         | U    | U  | M    | U  | G  | G  | U   | U  | U  | U  | U  | U  |
| Boric acid                             | S    | S  | S    | S  | S  | S  | U   | U  | S  | S  | S  | S  |
| bromine                                | U    | U  | M    | U  | U  | U  |     |    | M  | U  | U  | U  |
| Bromobenzene                           | U    | U  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Bromoform                              | U    | U  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Butadiene                              | U    | U  | M    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Butyl acetate                          | G    | M  | G    | M  | M  | U  |     |    | U  | U  | U  | U  |
| Butyl chloride                         | U    | U  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Butyric acid                           | U    | U  | M    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Calcium chloride                       | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Calcium hydroxide -<br>concentrated    | S    | S  | S    | S  | S  | S  |     |    | U  | U  | G  | G  |
| Calcium hypochlorite -<br>saturated    | S    | S  | S    | S  | S  | S  |     |    | M  | U  | S  | G  |
| Carbazole                              | S    | S  | S    | S  | S  | S  |     |    | U  | U  | S  | S  |
| Carbon disulfide                       | U    | U  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Carbon tetrachloride                   | M    | U  | G    | M  | G  | M  | U   | U  | U  | U  | U  | U  |
| Caustic potassium -30%                 | S    | S  | S    | S  | S  | S  |     |    | U  | U  | G  | G  |
| Caustic potassium -50%                 | S    | S  | S    | S  | S  | S  |     |    | U  | U  | G  | G  |
| Caustic potassium -<br>concentrated    | S    | S  | S    | S  | S  | S  |     |    | U  | U  | G  | G  |
| Caustic soda -1%                       | G    | G  | G    | M  | S  | S  | G   |    | U  | U  | S  | G  |
| Caustic soda -50%                      | G    | G  | G    | M  | S  | S  | U   | U  | U  | U  | S  | G  |
| Caustic soda - concentrated            | U    | U  | M    | U  | U  | U  | U   | U  | G  | M  | U  | U  |
| Cedar oil                              | S    | G  | S    | S  | M  | U  | U   | U  | M  | U  | U  | U  |
| Acetate fibrinolytic agent             | G    | U  | G    | G  | M  | U  |     |    | G  | M  | M  | U  |
| Chlorine - aqueous solution            | G    | U  | G    | M  | M  | U  |     |    | G  | M  | U  | U  |
| Chlorine - moisture                    | G    | U  | G    | M  | M  | U  |     |    | G  | M  | U  | U  |
| Chlorine moisture -10%                 | G    | U  | E    | M  | M  | U  |     |    | G  | F  | U  | U  |
| Chlorine dry gas -10%                  | S    | S  | S    | S  | S  | G  |     |    | M  | U  | G  | U  |
| Chloroacetic acid                      | U    | U  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| chlorobenzene                          | M    | U  | M    | U  | U  | U  |     |    | U  | U  | U  | U  |
| chloroform                             |      |    |      |    |    |    |     |    |    |    |    |    |

| Chemical name<br>Temperature for use°C | LDPE |    | HDPE |    | PP |    | PET |    | PC |    | PS |    |
|----------------------------------------|------|----|------|----|----|----|-----|----|----|----|----|----|
|                                        | 20   | 50 | 20   | 50 | 20 | 50 | 20  | 50 | 20 | 50 | 20 | 50 |
| Chromic acid -10%                      | S    | S  | S    | S  | S  | S  | G   |    | G  | M  | S  | G  |
| Chromic acid -20%                      | S    | S  | S    | S  | G  | G  | G   |    | G  | M  | G  | G  |
| Chromic acid -50%                      | S    | S  | S    | S  | G  | M  |     |    | M  | U  | M  | U  |
| Chromic acid-contains sulfur           | U    | U  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Cinnamon oil                           | U    | U  | U    | U  | U  | U  |     |    | G  | M  | S  | S  |
| Citric acid -10%                       | S    | S  | S    | S  | S  | S  | G   |    | S  | S  | S  | S  |
| Citric acid -1M                        | S    | S  | S    | S  | S  | S  | G   |    | S  | S  | S  | S  |
| Copper sulfate                         | S    | S  | S    | S  | S  | S  | S   |    | S  | S  | M  | U  |
| cresol                                 | U    | U  | M    | U  | G  | M  |     |    | U  | U  | U  | U  |
| cyclohexane                            | M    | U  | M    | U  | G  | U  | G   | U  | S  | M  | U  | U  |
| cyclohexanone                          | U    | U  | M    | U  | M  | U  | U   | U  | U  | U  | U  | U  |
| cyclopentane                           | U    | U  | M    | U  | M  | U  |     |    | U  | U  | U  | U  |
| decahydronaphthalene                   | G    | M  | S    | G  | U  | U  |     |    | S  |    | U  | U  |
| naphthalene                            | G    | M  | S    | G  | U  | U  |     |    | S  |    | U  | U  |
| diacetone                              | U    | U  | U    | U  | G  | M  | U   | U  | U  | U  | S  | M  |
| Diacetone alcohol                      | M    | U  | S    | S  | G  | M  |     |    | U  | U  | U  | U  |
| Dibutyl phthalate                      | M    | U  | M    | U  | G  | U  |     |    | G  | U  | U  | U  |
| diethylbenzene                         | U    | U  | M    | U  | M  | U  |     |    | M  | U  | U  | U  |
| ether                                  | U    | U  | M    | U  | M  | U  | S   |    | U  | U  | U  | U  |
| Diethyl ketone                         | U    | U  | U    | U  | G  | G  |     |    | U  | U  | U  | U  |
| Diethyl malonate                       | S    | S  | S    | S  | S  | S  |     |    | M  | U  | G  | G  |
| Diethylamine                           | U    | U  | M    | U  | G  | U  |     |    | U  | U  | U  | U  |
| Dioxane                                | G    | M  | G    | G  | U  | U  |     |    | U  | U  | S  | S  |
| Diethylene glycol                      | S    | S  | S    | S  | S  | S  |     |    | G  | M  | U  | U  |
| Dimethylacetamide                      | M    | U  | S    | S  | S  | S  |     |    | U  | U  | U  | U  |
| Dimethylformamide                      | S    | S  | S    | S  | S  | S  | U   | U  | U  | U  | S  | G  |
| Dimethyl sulfoxide                     | S    | S  | S    | S  | S  | S  | U   | U  | S  | G  | U  | U  |
| Dilambs heterocycloethane              | G    | M  | G    | G  | U  | U  |     |    | U  | U  | S  | S  |
| Dipropylene glycol                     | S    | S  | S    | S  | S  | S  |     |    | G  | M  | S  | G  |
| DMSO                                   | S    | S  | S    | S  | S  | S  | U   | U  | U  | U  | S  | G  |
| Ethanol -40%                           | S    | G  | S    | S  | S  | S  | G   |    | S  | S  | U  | U  |
| ether                                  | U    | U  | M    | U  | U  | U  | S   |    | U  | U  | U  | U  |
| Ethyl acetate                          | S    | S  | S    | S  | G  | U  | U   | U  | U  | U  | S  | G  |
| Alcohol -40%                           | S    | G  | S    | S  | S  | S  | G   |    | S  | S  | S  | G  |
| Alcohol -96%                           | S    | G  | S    | S  | S  | S  | G   |    | S  | G  | S  | G  |
| Alcohol -ethylbenzene                  | U    | U  | M    | U  | U  | U  | S   |    | U  | U  |    |    |



DARSUN:Commonlyusedresinchemicalresistancetable

| Chemical name<br>Temperature for use°C | LDPE |    | HDPE |    | PP |    | PET |    | PC |    | PS |    |
|----------------------------------------|------|----|------|----|----|----|-----|----|----|----|----|----|
|                                        | 20   | 50 | 20   | 50 | 20 | 50 | 20  | 50 | 20 | 50 | 20 | 50 |
| Ethyl benzoate                         | M    | M  | G    | G  | G  | M  |     |    | U  | U  | U  | U  |
| Ethyl butyrate                         | G    | U  | G    | M  | G  | U  |     |    | U  | U  | U  | U  |
| chloroethane                           | M    | U  | U    | U  | M  | U  |     |    | U  | U  | U  | U  |
| Ethyl cyanoacetate                     | S    | S  | S    | S  | S  | S  |     |    | M  | U  | G  | U  |
| Ethyl lactate                          | S    | S  | S    | S  | S  | S  |     |    | M  | U  | M  | U  |
| Vinyl chloride                         | U    | U  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Ethylene glycol                        | S    | G  | S    | S  | S  | S  | S   |    | S  | G  | S  | S  |
| Ethylene oxide -100%                   | M    | M  | G    | M  | M  | U  | G   | M  | M  | U  | U  | U  |
| Ethylene oxide - Gas                   | G    | G  | S    | S  | S  | S  | G   | M  | S  | S  | S  | G  |
| Ethylene oxide                         | M    | M  | G    | M  | M  | U  | G   | M  | M  | U  | U  | U  |
| EtO- Gas                               | G    | G  | S    | S  | S  | S  | G   | M  | S  | S  | S  | G  |
| EtO                                    | M    | M  | G    | M  | M  | U  | G   | M  | M  | U  | U  | U  |
| Fatty acids - saturated                | G    | M  | S    | S  | S  | G  | G   | M  | G  | M  | S  | M  |
| Fatty acids - unsaturated              | G    | M  | S    | S  | S  | G  | G   | M  | G  | M  | S  | M  |
| Fluoride -                             | S    | S  | S    | S  | S  | S  |     |    | S  | S  | G  | G  |
| Fluoride - gas                         | M    | U  | G    | U  | U  | U  |     |    | G  | M  | U  | U  |
| Formaldehyde -10%                      | S    | S  | S    | S  | S  | S  |     |    | S  | S  | G  | G  |
| Formaldehyde -40%                      | S    | G  | S    | G  | S  | S  |     |    | S  | S  | G  | G  |
| Formalin -10%                          | S    | S  | S    | S  | S  | S  |     |    | S  | S  | G  | G  |
| Formalin. -40%                         | S    | G  | S    | G  | S  | S  |     |    | S  | S  | G  | G  |
| Formic acid -3%                        | S    | G  | S    | S  | S  | G  |     |    | S  | G  | S  | S  |
| Formic acid -50%                       | G    | G  | S    | S  | S  | G  |     |    | G  | M  | G  | M  |
| Formic acid -85%                       | G    | G  | S    | S  | S  | G  |     |    | M  | U  | G  | M  |
| Formic acid                            | G    | G  | S    | S  | S  | G  |     |    | M  | U  | G  | M  |
| Freon TF                               | S    | G  | S    | G  | S  | G  |     |    | G  | U  | M  | U  |
| Gasoline                               | U    | U  | M    | U  | M  | U  | G   |    | M  | U  | U  | U  |
| Glutaraldehyde                         | S    | G  | S    | S  | S  | S  | G   |    | S  | M  | S  | M  |
| Glutaraldehyde disinfectant            | S    | G  | S    | S  | S  | S  |     |    | S  | M  | S  | M  |
| glycerol                               | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Hexane                                 | U    | U  | G    | M  | G  | M  | G   |    | M  | U  | U  | U  |
| hydrazine                              | U    | U  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Hydrobromic acid -69%                  | S    | S  | S    | G  | S  | G  |     |    | G  | M  | M  | M  |
| Hydrochloric acid -5%                  | S    | S  | S    | S  | S  | S  | G   |    | S  | S  | S  | S  |
| Hydrochloric acid -20%                 | S    | S  | S    | S  | S  | S  | G   |    | G  | M  | S  | S  |
| Hydrochloric acid -35%                 | S    | S  | S    | S  | S  | G  | G   |    | M  | U  | S  | S  |
| Hydrofluoric acid -4%                  | S    | S  | S    | S  | S  | S  | G   |    | S  | S  | S  | S  |
| Hydrofluoric acid -48%                 | S    | S  | S    | S  | S  | G  | G   |    | G  | M  | S  | S  |
| Hydrogen peroxide -3%                  | S    | S  | S    | S  | S  | G  | G   |    | S  | S  | S  | G  |

| Chemical name          | LDPE |    | HDPE |    | PP |    | PET |    | PC |    | PS |    |
|------------------------|------|----|------|----|----|----|-----|----|----|----|----|----|
| Temperature for use°C  | 20   | 50 | 20   | 50 | 20 | 50 | 20  | 50 | 20 | 50 | 20 | 50 |
| Hydrogen peroxide -30% | S    | G  | S    | S  | S  | M  | G   |    | S  | S  | S  | G  |
| Hydrogen peroxide -90% | S    | M  | S    | S  | S  | M  | G   |    | S  | S  | S  | G  |
| Iodine crystals        | U    | U  | U    | U  | S  | S  |     |    | G  | U  | G  | M  |
| Isobutyric acid        | S    | S  | S    | S  | S  | S  |     |    | S  | G  | G  | G  |
| Isopropyl alcohol      | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | G  |
| Isopropyl acetate      | G    | M  | S    | G  | G  | M  |     |    | U  | U  | U  | U  |
| Isopropyl alcohol      | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | G  |
| Isopropyl benzene      | M    | U  | M    | U  | M  | U  |     |    | U  | U  | U  | U  |
| Isopropyl ether        | U    | U  | M    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Jet engine ingredients | M    | U  | M    | U  | M  | U  |     |    | G  | U  | G  | M  |
| Kerosene               | M    | U  | M    | U  | M  | U  | G   |    | S  | M  | U  | U  |
| Spray paint thinner    | U    | U  | M    | U  | M  | U  | U   | U  | U  | U  | U  | U  |
| Lactic acid -3%        | S    | G  | S    | S  | S  | S  | M   | U  | S  | S  | S  | S  |
| Lactic acid -85%       | S    | G  | S    | S  | S  | G  | U   | U  | S  | G  | S  | S  |
| Lead acetate           | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Magnesium chloride     | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| MEK                    | U    | U  | U    | U  | S  | G  | G   |    | U  | U  | U  | U  |
| Mercury chloride       | S    | S  | S    | S  | S  | S  | U   | U  | S  | S  | G  | G  |
| Methanol               | S    | G  | S    | S  | S  | S  | G   |    | G  | M  | G  | M  |
| Methoxyethyl oleate    | S    | G  | S    | S  | S  | G  | G   |    | M  | U  | U  | U  |
| Methyl acetate         | M    | U  | M    | M  | G  | M  | U   | U  | U  | U  | U  | U  |
| Methanol               | S    | G  | S    | S  | S  | S  | G   |    | G  | M  | G  | M  |
| Butyl ketone           | U    | U  | U    | U  | S  | G  | G   |    | U  | U  | U  | U  |
| Methyl isobutyl ketone | U    | U  | U    | U  | G  | M  | U   | U  | U  | U  | U  | U  |
| Methyl propyl ketone   | U    | U  | M    | U  | G  | M  | U   | U  | U  | U  | U  | U  |
| Dichloromethane        | U    | U  | M    | U  | M  | U  | U   | U  | U  | U  | U  | U  |
| Methyl isobutyl ether  | U    | U  | M    | U  | M  | U  | U   | U  | U  | U  | U  | U  |
| MIBK                   | U    | U  | U    | U  | G  | M  | U   | U  | U  | U  | U  | U  |
| Mineral oil            | G    | U  | S    | S  | S  | M  | G   | U  | S  | S  | S  | S  |
| Mineral spirit         | M    | U  | M    | U  | M  | U  | G   |    | M  | M  | M  | M  |
| N-amyl acetate         | G    | M  | S    | G  | G  | M  |     |    | U  | U  | U  | U  |
| N-butanol              | S    | S  | S    | S  | S  | S  |     |    | G  | M  | S  | G  |
| N-butyl acetate        | G    | M  | G    | M  | G  | M  |     |    | U  | U  | U  | U  |
| N-butyl alcohol        | S    | S  | S    | S  | S  | S  |     |    | G  | M  | S  | G  |
| N-gontane              | M    | U  | M    | U  | M  | U  |     |    | M  | U  | M  | U  |
| n-heptane              | U    | U  | M    | M  | M  | M  |     |    | M  | U  | U  | U  |
| Nitric acid -10%       | S    | S  | S    | S  | S  | S  | S   |    | S  | G  | G  | N  |
| Nitric acid -20%       | S    | S  | G    | G  | M  | M  | G   |    | S  | G  | M  | U  |
| Nitric acid -50%       | G    | M  | M    | U  | M  | U  | G   |    | G  | M  | M  | U  |

DARSUN:Commonlyusedresinchemicalresistancetable

| Chemical name<br>Temperature for use°C | LDPE |    | HDPE |    | PP |    | PET |    | PC |    | PS |    |
|----------------------------------------|------|----|------|----|----|----|-----|----|----|----|----|----|
|                                        | 20   | 50 | 20   | 50 | 20 | 50 | 20  | 50 | 20 | 50 | 20 | 50 |
| Nitric acid -70%                       | M    | U  | M    | U  | U  | U  | U   | U  | G  | U  | U  | U  |
| Nitrobenzene                           | U    | U  | U    | U  | U  | U  | U   | U  | U  | U  | U  | U  |
| Nitromethane                           | U    | U  | M    | U  | M  | U  | U   | U  | M  | U  | U  | U  |
| n-octane                               | S    | S  | S    | S  | S  | S  |     |    | G  | M  | U  | U  |
| O-dichlorobenzene                      | M    | U  | U    | U  | M  | U  | U   | U  | U  | U  | U  | U  |
| Oil - Cedar                            | U    | U  | M    | U  | U  | U  |     |    | G  | M  | U  | U  |
| oil-cinnamon                           | U    | U  | M    | U  | U  | U  |     |    | G  | M  | U  | U  |
| Oil - Mineral                          | G    | U  | S    | S  | S  | S  |     |    | S  | G  | S  | S  |
| Oil - Pine                             | G    | U  | M    | U  | S  | G  |     |    | G  | M  | U  | U  |
| Orange oil                             | M    | U  | G    | M  | G  | M  |     |    | M  | M  | U  | U  |
| Oxalic acid -10%                       | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Ozone - Gas                            | G    | U  | G    | U  | M  | U  |     |    | U  | U  | M  | M  |
| p-chlorophenone                        | S    | S  | S    | S  | S  | S  |     |    | G  | U  | U  | U  |
| P-dichlorobenzene                      | M    | U  | U    | U  | G  | M  | U   | U  | U  | U  | U  | U  |
| Perchloric acid -70%                   | G    | U  | G    | U  | G  | U  |     |    | U  | U  | G  | M  |
| Perchloric acid                        | G    | U  | G    | U  | G  | U  |     |    | U  | U  | G  | M  |
| Pervinyl chloride                      | U    | U  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Oil                                    | U    | U  | G    | U  | U  | U  |     |    | M  | M  | U  | U  |
| Phenol -50%                            | U    | U  | U    | U  | U  | U  | U   | U  | U  | U  | U  | U  |
| Phenol - crystal                       | M    | U  | G    | M  | G  | U  | U   | U  | U  | U  | U  | U  |
| Phenol - liquid                        | U    | U  | U    | U  | U  | U  | U   | U  | U  | U  | U  | U  |
| Phosphoric acid -5%                    | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Phosphoric acid -85%                   | S    | U  | S    | S  | S  | G  |     |    | S  | G  | S  | G  |
| Picric acid                            | U    | U  | U    | U  | U  | U  |     |    | U  | U  | G  | M  |
| Pine oil                               | G    | U  | M    | U  | S  | G  |     |    | G  | M  | U  | U  |
| Potassium chloride                     | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Potassium hydroxide -1%                | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Potassium hydroxide -30%               | S    | S  | S    | S  | S  | S  |     |    | M  | U  | S  | G  |
| Potassium hydroxide                    | S    | S  | S    | S  | S  | S  |     |    | U  | U  | G  | G  |
| Potassium permanganate                 | S    | S  | S    | S  | S  | G  |     |    | S  | S  | S  | G  |
| Propane - Gas                          | U    | U  | S    | S  | U  | U  |     |    | M  | U  | U  | U  |
| Propionic acid                         | M    | U  | S    | M  | S  | G  |     |    | U  | U  | G  | U  |
| Propylene glycol                       | S    | S  | S    | S  | S  | S  |     |    | G  | M  | S  | S  |
| Propylene oxide                        | S    | G  | S    | S  | S  | G  |     |    | G  | M  | U  | U  |
| Pyridine                               | U    | U  | U    | U  | S  | S  |     |    | U  | U  | U  | U  |
| Resorcin -5%                           | S    | S  | S    | S  | S  | S  |     |    | G  | M  | G  | M  |
| Resorcinol - Saturated                 | S    | S  | S    | S  | S  | S  |     |    | G  | M  | G  | M  |
| Salicylic aldehyde                     | S    | G  | S    | S  | S  | G  |     |    | G  | M  | U  | U  |

| Chemical name                | LDPE |    | HDPE |    | PP |    | PET |    | PC |    | PS |    |
|------------------------------|------|----|------|----|----|----|-----|----|----|----|----|----|
| Temperature for use°C        | 20   | 50 | 20   | 50 | 20 | 50 | 20  | 50 | 20 | 50 | 20 | 50 |
| Salicylaldehyde - Powder     | S    | S  | S    | S  | S  | S  |     |    | S  | G  | S  | S  |
| Salicylaldehyde - Saturated  | S    | S  | S    | S  | S  | S  |     |    | S  | G  | S  | G  |
| sec-butanol                  | S    | S  | S    | S  | S  | S  |     |    | S  | G  | G  | G  |
| Silicone oil                 | S    | G  | S    | S  | S  | S  | U   | U  | S  | S  | S  | G  |
| Silver acetate               | S    | S  | S    | S  | S  | S  |     |    | S  | G  | G  | G  |
| Silver nitrate               | S    | G  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Aviation hydraulic oil       | G    | M  | S    | G  | S  | G  |     |    | U  | U  | U  | U  |
| Hydraulicfluidsodium acetate | S    | S  | S    | S  | S  | S  |     |    | S  | G  | S  | S  |
| Sodium carbonate             | S    | S  | S    | S  | S  | S  | G   |    | G  | M  | S  | G  |
| Sodium dichromate            | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Sodium hydroxide -1%         | S    | S  | M    | M  | S  | S  | G   |    | M  | U  | S  | S  |
| Sodium hydroxide -10%        | S    | S  | S    | S  | S  | S  | G   |    | U  | U  | S  | S  |
| Sodium hydroxide -50%        | G    | G  | S    | S  | S  | S  | U   | U  | U  | U  | S  | S  |
| Sodium hydroxide             | G    | G  | S    | S  | S  | S  | U   | U  | U  | U  | S  | G  |
| Sodium hypochlorite -15%     | S    | M  | S    | G  | M  | U  | G   |    | G  | M  | E  | G  |
| Stearic acid                 | S    | S  | S    | S  | S  | S  |     |    | S  | G  | S  | G  |
| Sulfur dioxide - Dry gas     | S    | S  | M    | U  | S  | S  |     |    | G  | U  | M  | U  |
| Sulfur dioxide - Liquid      | U    | U  | S    | S  | S  | S  |     |    | S  | G  | U  | U  |
| Sulfur dioxide - moisture    | S    | S  | M    | U  | S  | S  |     |    | G  | U  | M  | U  |
| Sulfur dioxide               | U    | U  | G    | M  | M  | U  |     |    | M  | U  | U  | U  |
| Sulfur salts                 | M    | U  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Sulfuric acid -6%            | S    | S  | S    | S  | S  | S  | S   |    | S  | G  | S  | S  |
| Sulfuric acid -20%           | S    | S  | S    | S  | S  | S  | S   |    | G  | M  | S  | S  |
| Sulfuric acid -30%           | S    | S  | S    | G  | G  | M  | G   |    | G  | M  | S  | G  |
| Sulfuric acid -60%           | S    | G  | M    | U  | M  | U  |     |    | U  | U  | M  | M  |
| Sulfuric acid -96%           | G    | G  | M    | U  | M  | U  |     |    | U  | U  | M  | M  |
| Sulfuric acid -98%           | G    | G  | M    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Sulfuric acid                | G    | G  | S    | S  | S  | S  |     |    | S  | G  | S  | G  |
| Tartaric acid                | S    | S  | M    | U  | G  | M  |     |    | M  | U  | M  | U  |
| TCA                          | M    | U  | S    | S  | S  | G  |     |    | G  | M  | G  | G  |
| Tertiary butanol             | S    | G  | M    | U  | G  | M  |     |    | U  | U  | U  | U  |
| tetrahydrofuran              | M    | U  | M    | U  | G  | M  |     |    | U  | U  | U  | U  |
| THF                          | M    | U  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Thionyl chloride             | U    | U  | G    | M  | S  | S  |     |    | G  | U  | G  | M  |
| Iodine tincture              | S    | G  | U    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Toluene                      | M    | U  |      |    |    |    | U   | U  |    |    |    |    |



DARSUN: Commonly used resin chemical resistance table

| Chemical name          | LDPE |    | HDPE |    | PP |    | PET |    | PC |    | PS |    |
|------------------------|------|----|------|----|----|----|-----|----|----|----|----|----|
| Temperature for use °C | 20   | 50 | 20   | 50 | 20 | 50 | 20  | 50 | 20 | 50 | 20 | 50 |
| Buffer-pH11            | S    | G  | S    | G  | S  | G  | M   | U  | M  | U  | G  | U  |
| Buffer-pH7.0           | S    | G  | S    | G  | S  | G  | G   | G  | G  | M  | G  | U  |
| Trisodium phosphate    | S    | S  | S    | S  | S  | S  |     |    | G  | U  | S  | S  |
| Turpentine             | M    | U  | M    | U  | M  | U  | G   |    | M  | U  | U  | U  |
| undecanol              | S    | M  | S    | G  | S  | G  |     |    | G  | M  | G  | G  |
| Urea                   | S    | S  | S    | S  | S  | S  |     |    | G  | M  | S  | G  |
| Vinylidene chloride    | U    | U  | M    | U  | U  | U  |     |    | U  | U  | U  | U  |
| xylene                 | U    | U  | M    | U  | U  | U  |     |    | U  | U  | U  | U  |
| Zinc chloride-10%      | S    | S  | S    | S  | S  | S  |     |    | S  | S  | S  | S  |
| Zinc stearate          | S    | S  | S    | S  | S  | S  |     |    | S  | U  | S  | S  |
| Zinc sulfate-10%       | S    | S  | S    | G  | S  | S  |     |    | S  | U  | S  | S  |
| Tributyl citrate       | G    | M  | S    | U  | G  | M  |     |    | U  | U  | U  | U  |
| Trichloroacetic acid   | M    | U  | M    | U  | G  | M  |     |    | M  | U  | M  | U  |
| Trichloroethane        | U    | U  | U    | U  | U  | U  |     |    | U  | G  | U  | U  |
| Trichloroethylene      | U    | U  | U    | S  | U  | U  |     |    | U  | G  | U  | U  |
| Triethyleneglycol      | S    | S  | S    |    | S  | S  |     |    | S  |    | S  | G  |
| Tripropyleneglycol     | S    | S  | S    |    | S  | S  |     |    | S  |    | S  | S  |

S ----- Meet: Continuous exposure for more than 30 days without damage

G ----- Generally satisfied: Sustained exposure for more than 30 days with no or minimal damage

M ----- not quite satisfied: Sustained contact for more than 7 days with some damage

U ----- Not satisfied: Damage may occur immediately. Do not continue to use.

Note: Due to different use conditions and processes, the actual use effect shall prevail.

## Our Global Presence



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